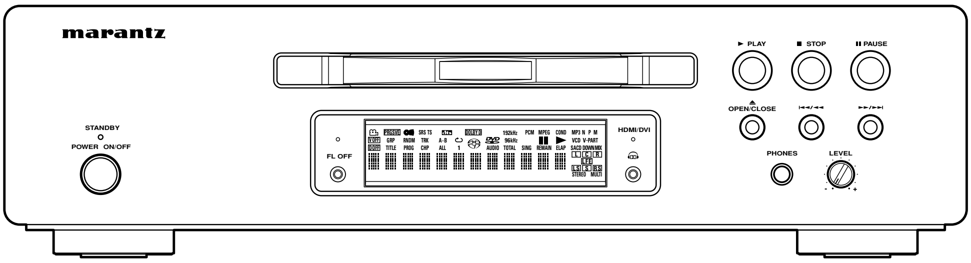
Service Manual

DV9500 /F1B /N1B /U1B
/F1N /L1G /S1G
/N1S

Super Audio CD / DVD Player



SUPER AUDIO CD

DVD AUDIO/VIDEO

dts 96/24

NSV PRECISION VIDEO

SRS TruSurround

DOLBY DIGITAL

HDMI

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Please use this service manual with referring to the user guide (D.F.U) without fail.
修理の際は、必ず取扱説明書を準備し操作方法を確認の上作業を行ってください。

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marantz®

DV9500

Part no. 90M21AK855010
First Issue 2004.08
ecm

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2. Complete part numbers and quantities required
3. Description of parts
4. Model number for which part is required
5. Way of shipment
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STANMORE NSW 2048
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FAX : 852 - 21913990

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日本マランツ株式会社

本　社　〒228-8505
神奈川県相模原市相模大野7-35-1

KOREA

MK ENTERPRISES LTD.
ROOM 604/605, ELECTRO-OFFICETEL, 16-58,
3GA, HANGANG-RO, YONGSAN-KU, SEOUL
KOREA
PHONE : +822 - 3232 - 155
FAX : +822 - 3232 - 154

SHOCK, FIRE HAZARD SERVICE TEST :

CAUTION : After servicing this appliance and prior to returning to customer, measure the resistance between either primary AC cord connector pins (with unit NOT connected to AC mains and its Power switch ON), and the face or Front Panel of product and controls and chassis bottom.

Any resistance measurement less than 1 Megohms should cause unit to be repaired or corrected before AC power is applied, and verified before it is return to the user/customer.

Ref. UL Standard No. 6500.

In case of difficulties, do not hesitate to contact the Technical Department at above mentioned address.

1. TECHNICAL SPECIFICATIONS

General

System	DVD-Video, DVD-Audio, DVD-R/RW, Video-CD, Super Audio CD, CD, MP3 files and JPEG files
Power requirements	
F Version	AC 100 V, 50 / 60 Hz
L Version	AC 110 V, 60 Hz
N Version	AC 230 V, 50 Hz
S Version	AC 230 V, 50 / 60 Hz
U Version	AC 120 V, 60 Hz
Power consumption	29W
Power consumption in standby mode	0.4W
Weight	8.5 kg (18 lb 11 oz)
Dimensions	440 (W) x 384 (D) x 115 (H) m (17.3 (W) x 15.1 (D) x 4.5 (H) in.) (Not including protruding cables, etc.)
Operating temperature	+5°C to +35°C (+41°F to +96°F)
Operating humidity	5% to 85% (no condensation)

S-Video output

Y (luminance) - Output level	1 Vp-p (75 Ω)
C (color) - Output level : NTSC	286 mVp-p (75 Ω)
: PAL	300 mVp-p (75 Ω)
Jacks	S-VIDEO jack

Video output (2 individual outputs)

Output level	1 Vp-p (75 Ω)
Jacks	RCA jack

Component video output (Y, C_B/P_B, C_R/P_B)

Output level	Y : 1.0 Vp-p (75 Ω) C_B/P_B, C_R/P_R : 0.7 Vp-p (75 Ω)
Jacks	RCA jack

R / G / B output

Output level	R / G / B : 0.7 Vp-p (75 Ω)
Jacks (N Version)	21 pin SCART connector

D1/D2 video output (except for N, U Version)

Output level	Y : 1.0 Vp-p (75 Ω) C_B/P_B, C_R/P_R : 0.7 Vp-p (75 Ω)
Jacks	D terminal

Audio output

Output level	
During audio output	2 Vrms (1 kHz, 0 dB)
Number of channels	2
Jacks	RCA jack

Audio output (multi-channel / L, R, C, SW, LS, RS)

Output level	
During audio output	2 Vrms (1 kHz, 0 dB)
Number of channels	6
Jacks	RCA jack

Digital audio characteristics

Frequency response	4 Hz to 44 kHz (DVD fs: 96 kHz) 4 Hz to 88 kHz (DVD-Audio fs: 192 kHz)
S/N ratio	more than 130 dB
Dynamic range	more than 110 dB
Total harmonic distortion	0.0008 %
Wow and flutter	Limit of measurement (±0.001% W. PEAK) or lower

Digital output

Optical digital output	Optical digital jack
Coaxial digital output	RCA jack

Other terminals

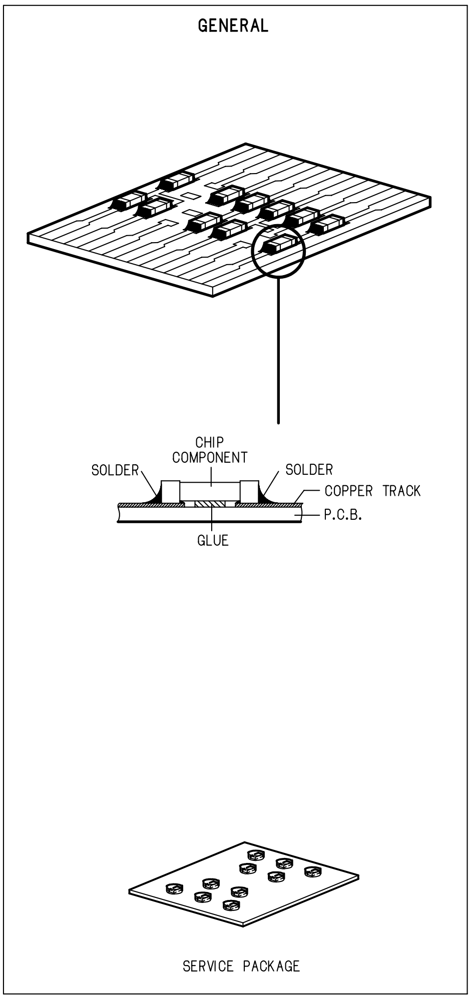
HDMI	1
RS232C	1

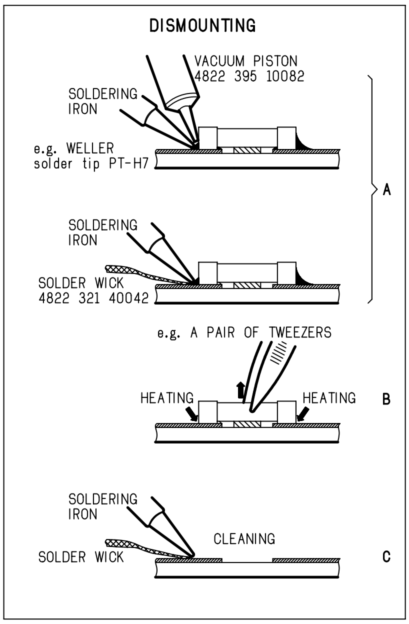
Accessories

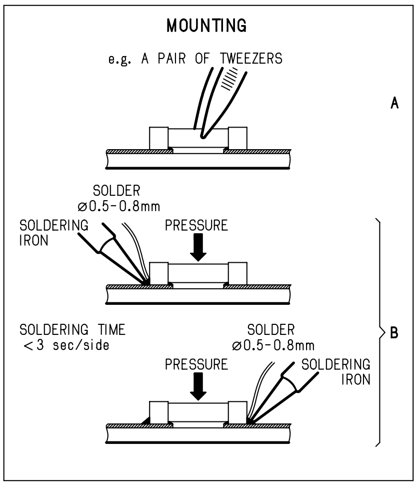
Audio/Video cable (yellow / red / white)	1
System control cable	1
Power cable	1
Remote control	1
AA (R6P) dry cell batteries	2
User guide	1

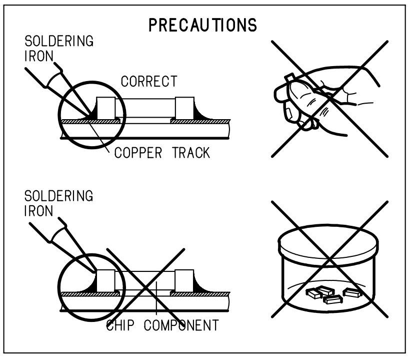
2. SERVICE HINTS AND TOOLS

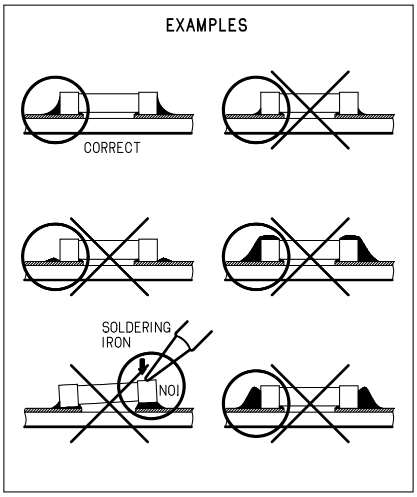
SERVICE HINTS


GENERAL
CHIP COMPONENT
SOLDER
SOLDER
COPPER TRACK
P.C.B.
GLUE
SERVICE PACKAGE


DISMOUNTING
VACUUM PISTON 4822 395 10082
SOLDERING IRON
e.g. WELLER solder tip PT-H7
A
SOLDERING IRON
SOLDER WICK 4822 321 40042
e.g. A PAIR OF TWEEZERS
HEATING
HEATING
B
SOLDERING IRON
CLEANING
SOLDER WICK
C


MOUNTING
e.g. A PAIR OF TWEEZERS
A
SOLDER ⌀0.5-0.8mm
SOLDERING IRON
PRESSURE
SOLDERING TIME <3 sec/side
SOLDER ⌀0.5-0.8mm
B
PRESSURE
SOLDERING IRON


PRECAUTIONS
SOLDERING IRON
CORRECT
COPPER TRACK
SOLDERING IRON
CHIP COMPONENT


EXAMPLES
CORRECT
SOLDERING IRON
NO!

SERVICE TOOLS

Audio signals disc	4822 397 30184
Disc without errors (SBC444)+	
Disc with DO errors, black spots and fingerprints (SBC444A)	4822 397 30245
Disc (65 min 1kHz) without no pause	4822 397 30155
Max. diameter disc (58.0 mm)	4822 397 60141
Torx screwdrivers	
Set (straight)	4822 395 50145
Set (square)	4822 395 50132
13th order filter	4822 395 30204
DVD test disc (PAL)	4822 397 10131
DVD test disc (NTSC) ALMEDIO	TDV-540

3. WARNING AND LASER SAFETY INSTRUCTIONS

GB **WARNING**

All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD).
Careless handling during repair can reduce life drastically.
When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance.
Keep components and tools also at this potential.

ESD

NL **WAARSCHUWING**

Alle IC's en vele andere halfgeleiders zijn gevoelig voor elektrostatische ontladingen (ESD).
Onzorgvuldig behandelen tijdens reparatie kan de levensduur drastisch doen verminderen.
Zorg ervoor dat u tijdens reparatie via een polsband met weerstand verbonden bent met hetzelfde potentiaal als de massa van het apparaat.
Houd componenten en hulpmiddelen ook op ditzelfde potentiaal.

F **ATTENTION**

Tous les IC et beaucoup d'autres semi-conducteurs sont sensibles aux décharges statiques (ESD).
Leur longévité pourrait être considérablement écourtée par le fait qu'aucune précaution n'est prise a leur manipulation.
Lors de réparations, s'assurer de bien être relié au même potentiel que la masse de l'appareil et enfiler le bracelet serti d'une résistance de sécurité.
Veiller a ce que les composants ainsi que les outils que l'on utilise soient également a ce potentiel.

D **WARNUNG**

Alle IC und viele andere Halbleiter sind empfindlich gegen elektrostatische Entladungen (ESD).
Unsorgfältige Behandlung bei der Reparatur kann die Lebensdauer drastisch vermindern.
Sorgen sie dafür, das Sie im Reparaturfall über ein Pulsarmband mit Widerstand mit dem Massepotential des Gerätes verbunden sind.
Halten Sie Bauteile und Hilfsmittel ebenfalls auf diesem Potential.

I **AVVERTIMENTO**

Tutti IC e parecchi semi-conduttori sono sensibili alle scariche statiche (ESD).
La loro longevita potrebbe essere fortemente ridatta in caso di non osservazione della piu grande cauzione alla loro manipolazione.
Durante le riparazioni occorre quindi essere collegato allo stesso potenziale che quello della massa dell'apparecchio tramite un braccialetto a resistenza.
Assicurarsi che i componenti e anche gli utensili con quali si lavora siano anche a questo potenziale.

GB

Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified be used.

NL

Veiligheidsbepalingen vereisen, dat het apparaat in zijn oorspronkelijke toestand wordt terug gebracht en dat onderdelen, identiek aan de gespecifieerde worden toegepast.

D

Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten.
Der Originalzustand des Gerats darf nicht verandert werden.
Fur Reparaturen sind Original-Ersatzteile zu verwenden.

I

Le norme di sicurezza esigono che l'apparecchio venga rimesso nelle condizioni originali e che siano utilizzati pezzi di ricambiago idetici a quelli specificati.

"Pour votre sécurité, ces documents doivent être utilisés par des spécialistes agrées, seuls habilités à réparer votre appareil en panne."

F

Les normes de sécurité exigent que l'appareil soit remis a l'état d'origine et que soient utilisées les pièces de rechange identiques à celles spécifiées.

LASER SAFETY

This unit employs a laser. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.

CLASS 1
LASER PRODUCT

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURE OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

AVOID DIRECT EXPOSURE TO BEAM

WARNING

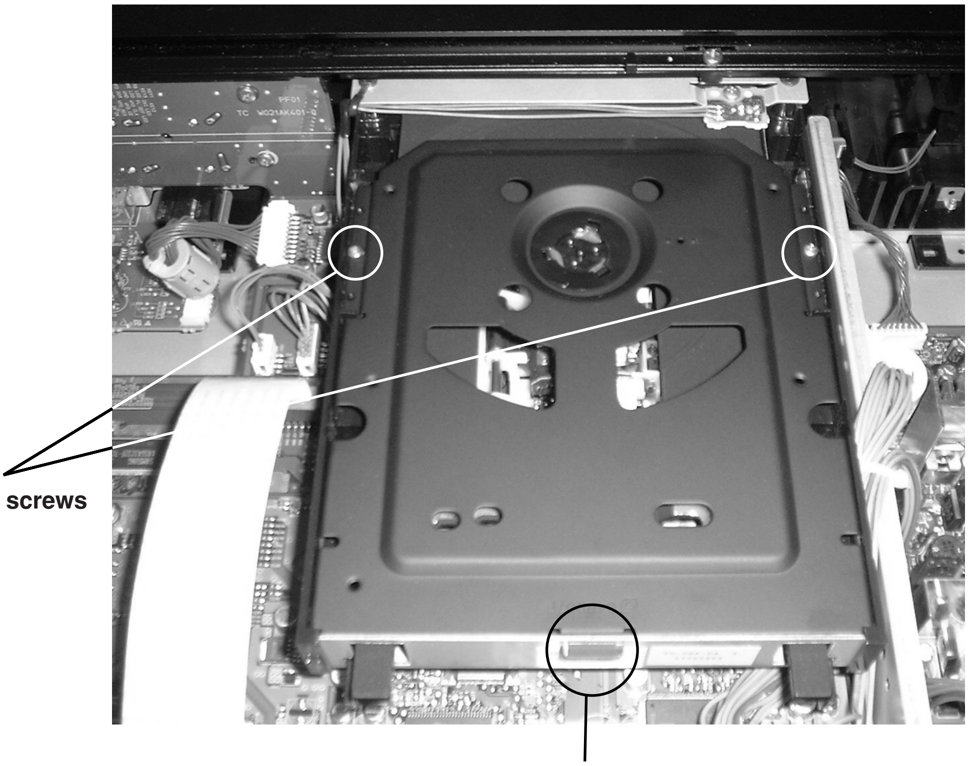
The use of optical instruments with this product will increase eye hazard.
Repair handling should take place as much as possible with a disc loaded inside the player

WARNING LOCATION: INSIDE ON LASER COVERSHIELD

CAUTION VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AVOID EXPOSURE TO BEAM
ADVARSEL SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING UNDGÅ UDSÆTTELSE FOR STRÅLING
ADVARSEL SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL Å PNES UNNGÅ EKSPONERING FOR STRÅLEN
VARNING SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD BETRAKTA EJ STRÅLEN
VARO! AVATT AESSA OLET ALTTIINA NÄKYVÄLLE JA NÄKYMÄTTÖMÄLLE LASER SÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN
VORSICHT SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG WENN ABDECKUNG GEÖFFNET NICHT DEM STRAHL AUSSETSEN
DANGER VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AVOID DIRECT EXPOSURE TO BEAM
ATTENTION RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE EXPOSITION DANGEREUSE AU FAISCEAU

4. TAKING THE DISC OUT OF EMERGENCY

1. Remove the top cover of the player.
2. Remove 2 screws shown in the picture follows.
3. Remove the disc clamper.
4. Now you can remove the disc.



Remove those screws

5. UPDATE BACK END SOFTWARE (FIRMWARE) PROCEDURE

Necessary Equipment

- Update Disc (for Back End Software).

1. Press **POWER** button, and turn on the DVD Player.
2. Press **Open**/**Close** button, and open the tray.
3. The update disc is placed on the tray.
4. Press **Open**/**Close** button, and close the tray.
5. After Loading the Disc, the front display shows **"VCD"** for a moment. Next, the front display shows **"WRITNG"**, And Back End Software is updated automatically.
6. At this time, **"Updating Flash Memory"** shows on the monitor.
7. The tray will be opened, when finished updating software.
8. At this time, after the front display shows **"VCD"** for a moment, it shows **"COMPLETE"**.
9. Take out the update disc from the tray.
10. Press the **Open**/**Close** button, and close the tray.
11. Press the **POWER** button, and turn off the DVD Player.

5. Back End Software（Firmware）の書き換え方法

必要機器

- Back End SoftwareのアップデートCD-ROM

1. **POWER**ボタンを押し、DVD Playerの電源を入れます。
2. **Open/Close**ボタンを押し、トレーを出します。
3. Back End Softwareのアップデートディスクをトレーに乗せます。
4. **Open/Close**ボタンを押し、トレーを戻します。
5. DiscのLoadingを行った後フロントディスプレイに"**VCD**"と一瞬表示し、"**WRITING**"と表示されSoftwareのアップデートは自動で行われます。
6. TVまたはモニターのOSDには"**Updating Flash Memory**"と表示されます。
7. アップデートが終わるとトレーが自動で開きます。
8. フロントディスプレイに一瞬"**VCD**"と表示された後、"**COMPLETE**"と表示されます。
9. アップデートディスクを取り出します。
10. **Open/Close**を押し、トレーを閉じます。
11. **POWER**ボタンを押し、電源を切ります。

6. UPDATE DSP CODE OF FLASH ROM PROCEDURE

Necessary Equipment

- Windows PC (With Serial Port)
- RC-232C cable straight type (9pin female – 9Pin female)
- Update Disc (90M-DV9500CDR)

Writing Procedure

The writing of software takes about 10 minutes.

1. Check the transmission bits rate of serial port.
   1.1 Click **Start\Settings\Control Panel** on the task bar, and Double click the **System**.

6. DSP用Flash ROMの書き換え方法

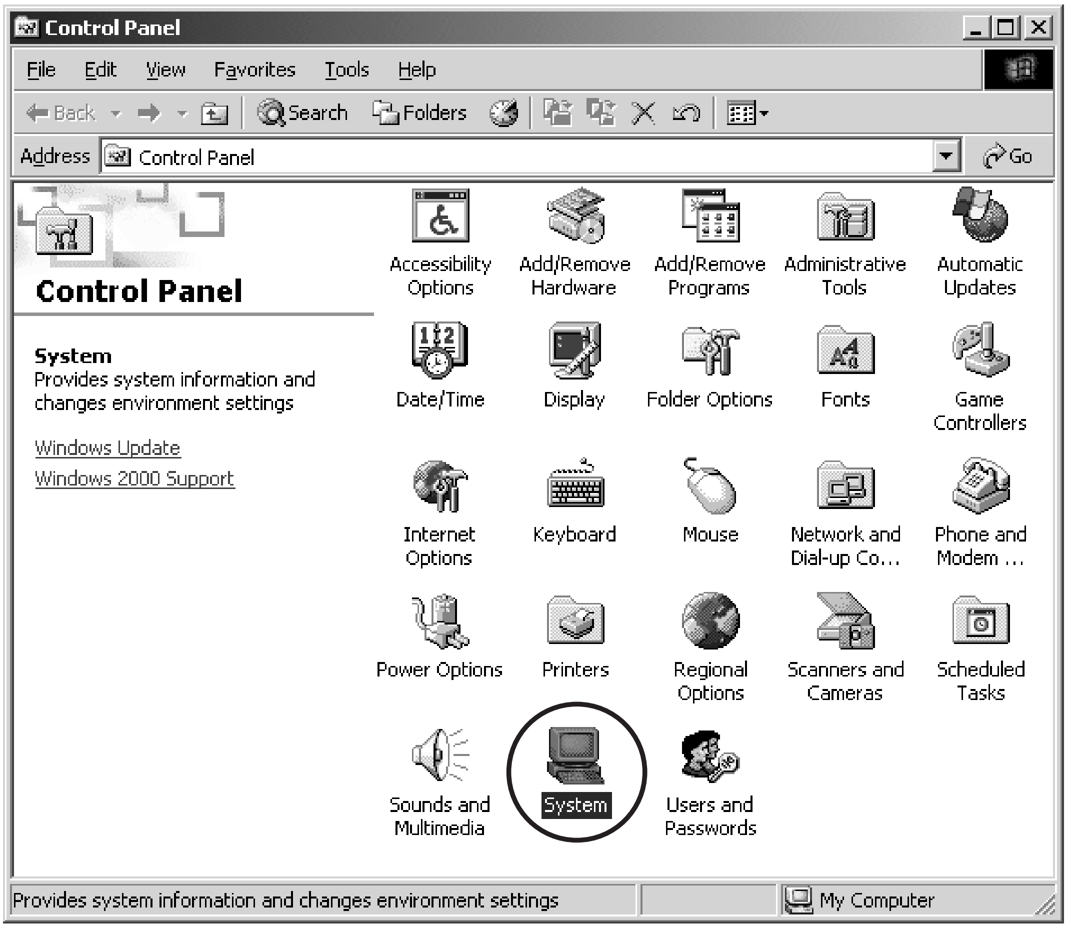
必要機器

- Windows PC （Serial Port 付き）
- RC-232C ケーブル
  （9pin メスー 9Pin メス ストレートタイプ）
- 書き換え用データ

書き込み手順

このDSP用Flash ROMの書き換え時にかかる時間はおよそ9分です。

1. Serial Port の転送レートを確認します。
   1.1 **Start\Settings\Control Panel** から **System** をダブルクリックします。

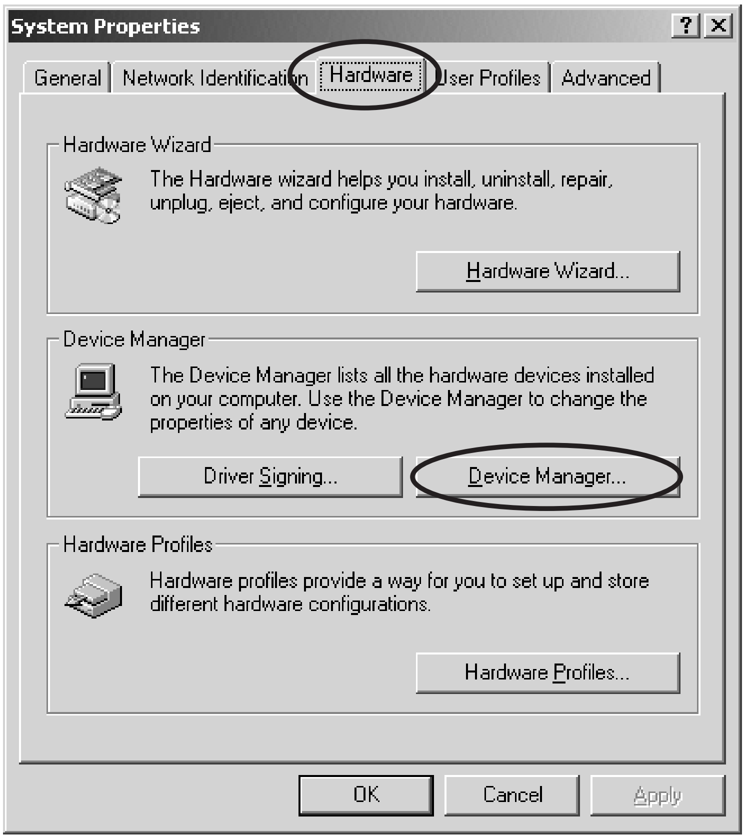

Control Panel
File
Edit
View
Favorites
Tools
Help
Back
Search
Folders
Address
Control Panel
Go
Control Panel
Accessibility Options
Add/Remove Hardware
Add/Remove Programs
Administrative Tools
Automatic Updates
Date/Time
Display
Folder Options
Fonts
Game Controllers
Internet Options
Keyboard
Mouse
Network and Dial-up Co...
Phone and Modem ...
Power Options
Printers
Regional Options
Scanners and Cameras
Scheduled Tasks
Sounds and Multimedia
System
Users and Passwords
Windows Update
Windows 2000 Support
My Computer

System
Provides system information and changes environment settings

Provides system information and changes environment settings

1.2 Click **Hardware** tab on the “System Properties”, and click **Device Manager...** in the “Device Manager”. (Case of Windows XP, 2000)

1.2 System Properties の **Hardware** タブをクリックし **Device Manager...** をクリックします。(Windows XP、2000の場合）


System Properties
General
Network Identification
Hardware
User Profiles
Advanced
Hardware Wizard
Hardware Wizard...
Device Manager
Driver Signing...
Device Manager...
Hardware Profiles
Hardware Profiles...
OK
Cancel
Apply

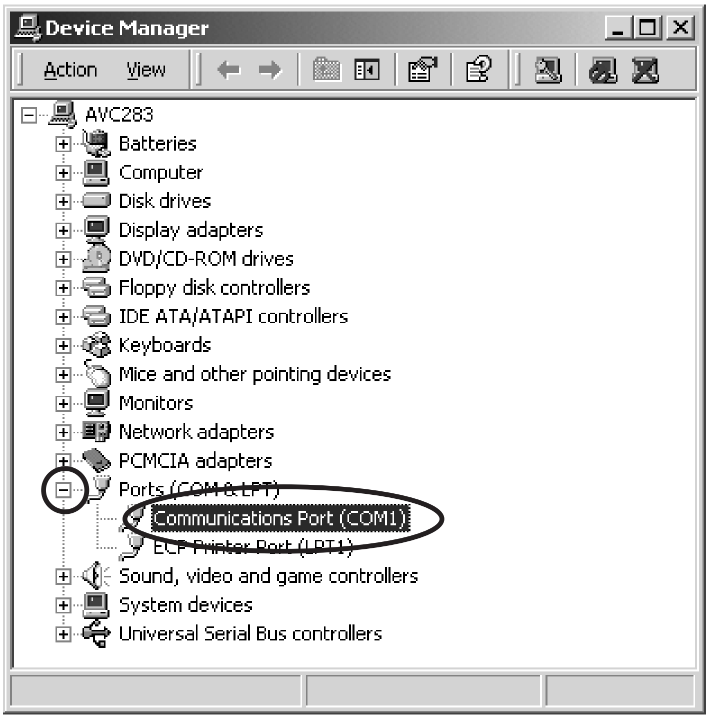
The Hardware wizard helps you install, uninstall, repair, unplug, eject, and configure your hardware.

The Device Manager lists all the hardware devices installed on your computer. Use the Device Manager to change the properties of any device.

Hardware profiles provide a way for you to set up and store different hardware configurations.

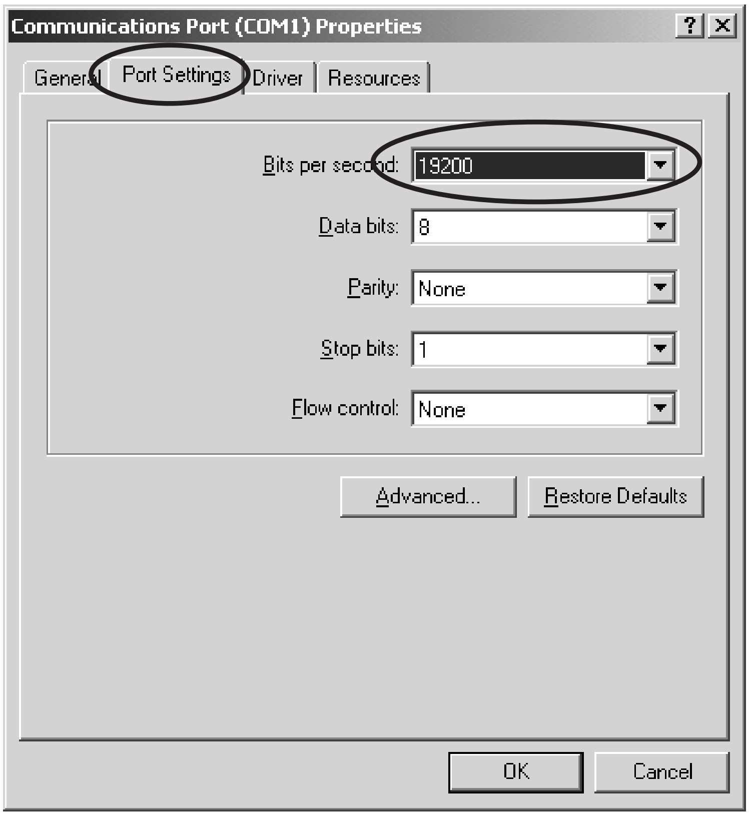
1.3 Click the **+** icon of “Ports (COM&LPT)”, and Double click **Communications Port (COM*)**. It will open the “Communications Port Properties”.

1.3 Ports (COM&LPT)に付いている **+** をクリックし、**Communications Port (COM*)**をダブルクリックします。


Device Manager
Action
View
AVC283
Batteries
Computer
Disk drives
Display adapters
DVD/CD-ROM drives
Floppy disk controllers
IDE ATA/ATAPI controllers
Keyboards
Mice and other pointing devices
Monitors
Network adapters
PCMCIA adapters
Ports (COM & LPT)
Communications Port (COM1)
ECP Printer Port (LPT1)
Sound, video and game controllers
System devices
Universal Serial Bus controllers

1.4 Click **Port Settings** tab on the “Communications Port Properties”, and Check the value of “Bits per second”, which is **19200**. When it is other values, it is change into **19200**.

1.4 Port Settingsのタブをクリックし、Bits per second:の値が19200か確認します。ほかの値になっている場合は19200に設定します。



Bits per second: 19200
Data bits: 8
Parity: None
Stop bits: 1
Flow control: None

1.5 Click **OK**, and close the “Communications Port Properties”.
1.6 Click the **x** icon of upper right, and close the “Device Manager”.
1.7 Click **OK**, and close the “System Properties”.
1.8 Click the **Exit** in the **File** of menu bar, and close the “Control Panel”.

Remark: It recommends rebooting PC, when the “Bit per second” is changed.

2. Connect RC-232C on the rear panel of DVD Player and Serial Port of windows PC with RS-232C cable.
3. Turn on the power of DVD Player into the writing mode.
   3.1 Press the **POWER ON/OFF** button while pressing **STOP** and **DISPLAY OFF** buttons in front panel of DVD Player.
   3.2 The front display indicates “**S-MODE_NO.**”.
   3.3 Press the **1**, **3**, **1** and **PLAY** buttons of the remote controller in order, while indicating “**S-MODE_NO.**”.
   3.4 The front display indicates “**DSP_WRITE**”.

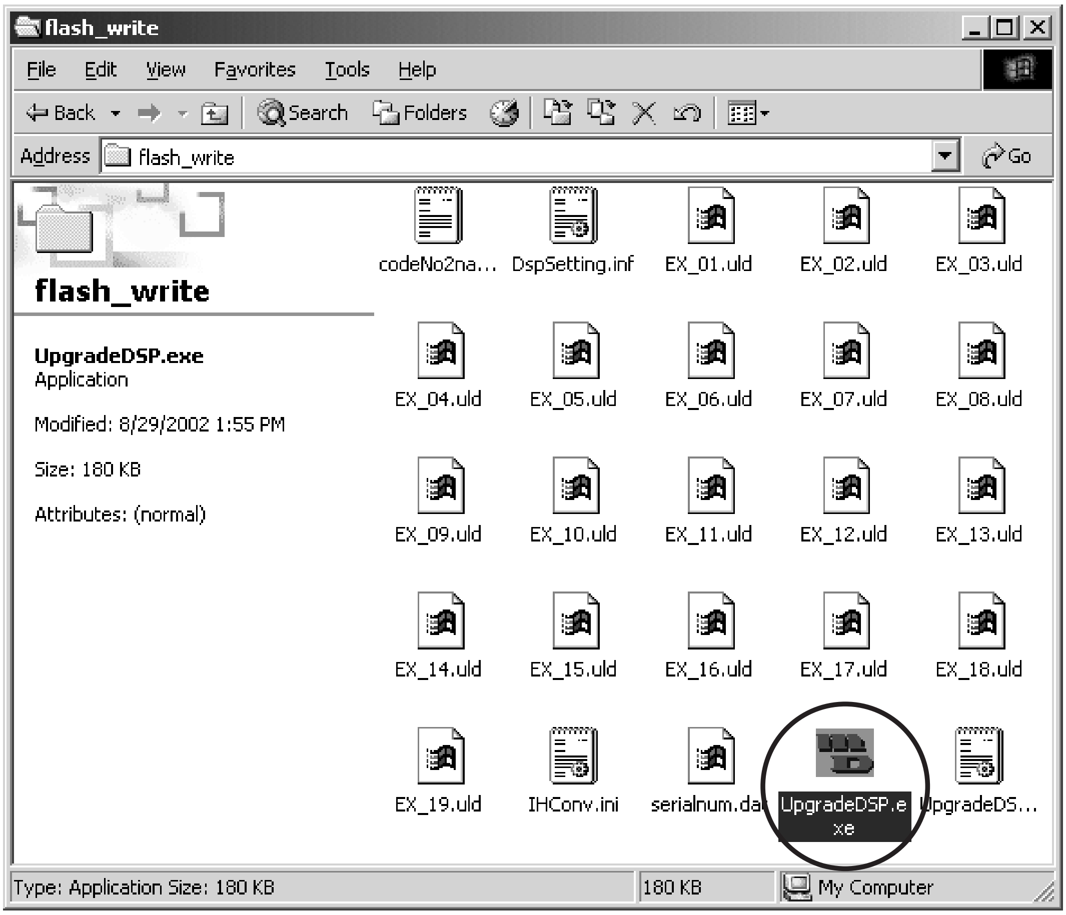
1.5 OKをクリックし、Communications Port Propertiesを閉じます。
1.6 右上のxアイコンをクリックし、Device Managerを閉じます。
1.7 OKをクリックし、System Propertiesを閉じます。
1.8 メニューバーのFileからExitをクリックしてControl Panelを閉じます。

注意）PCの種類によっては再起動をしないと正しく設定できない場合があります。Bit per second:を変更したときはPCの再起動をすることを勧めます。

2. Windows PCのSerial PortとDVD PlayerのリアパネルにあるRS-232CコネクタをRS-232Cケーブルで接続します。
3. DVD Playerを書き込みモードにします。
   3.1 DVD PlayerのフロントパネルにあるSTOPとDISPLAY OFFボタンを押しながらPOWER ON/OFFを押します。
   3.2 フロントディスプレイにS-MODE_NO.と表示されます。
   3.3 この表示が出ている間に（10秒間）リモコンから1、3、1、PLAYを押します。
   3.4 フロントディスプレイにDSP_WRITEと表示されます。

4. Insert the update CD-ROM into the PC, and open the files of ROM drive. Double click the “**upgradeDSP.exe**” in the flash_write folder.

4. 書き換え用データ CD-ROM を Windows PC に挿入し、DISC 内の **upgradeDSP.exe** をダブルクリックします。


flash_write
File Edit View Favorites Tools Help
Back Search Folders
Address flash_write
Go
codeNo2na...
DspSetting.inf
EX_01.uld
EX_02.uld
EX_03.uld
EX_04.uld
EX_05.uld
EX_06.uld
EX_07.uld
EX_08.uld
EX_09.uld
EX_10.uld
EX_11.uld
EX_12.uld
EX_13.uld
EX_14.uld
EX_15.uld
EX_16.uld
EX_17.uld
EX_18.uld
EX_19.uld
IHConv.ini
serialnum.da
UpgradeDSP.exe
UpgradeDS...
My Computer

flash_write

UpgradeDSP.exe
Application

Modified: 8/29/2002 1:55 PM

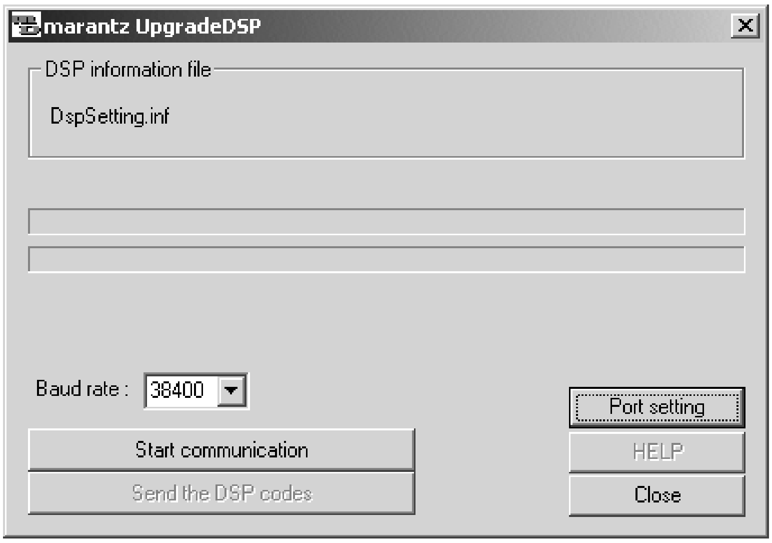
Size: 180 KB

Attributes: (normal)

Type: Application Size: 180 KB | 180 KB

5. The picture shown below is displayed.

5. marantz UpgradeDSP が立ち上がります。

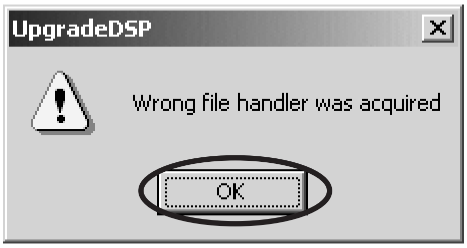

marantz UpgradeDSP
Port setting
HELP
Close
Start communication
Send the DSP codes

DSP information file: DspSetting.inf

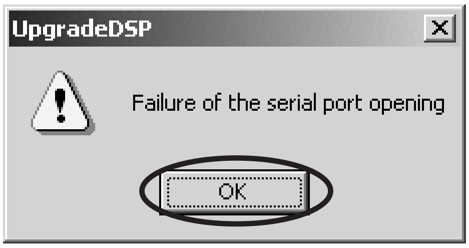
Baud rate : 38400

6. If the pictures shown below are displayed, click **OK** and close. It is because a port setup of the port of PC and writing software is different.

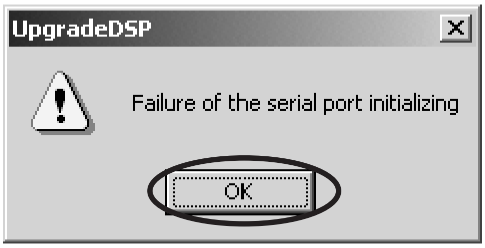
6. もしmarantz UpgradeDSPが立ち上がる前に下記のコメントが出たら**OK**をクリックしてください。これはmarantz UpgradeDSPのPort settingの初期値がCOM2になっているためPCの設定でCOM2以外にセットアップされている場合にこのコメントが出ます。


UpgradeDSP

Wrong file handler was acquired


UpgradeDSP

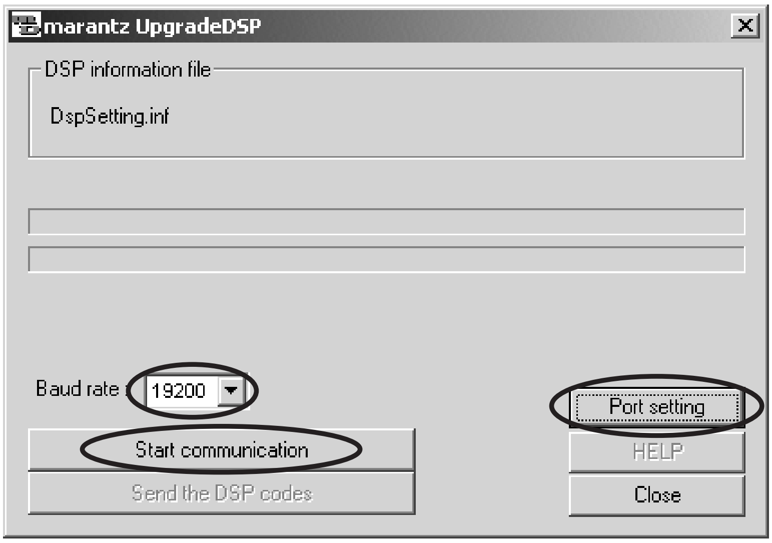
Failure of the serial port opening


UpgradeDSP

Failure of the serial port initializing

7. Click **Port setting**, and select the COM Port No.

7. **Port setting**をクリックし、COM portsを設定します。

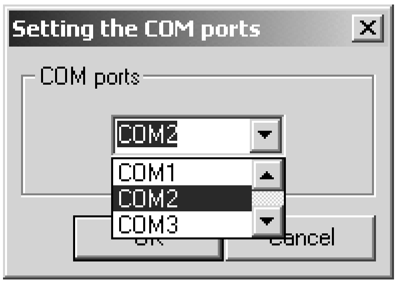

marantz UpgradeDSP

DSP information file

DspSetting.inf

Baud rate 19200

Start communication
Send the DSP codes
Port setting
HELP
Close


Setting the COM ports

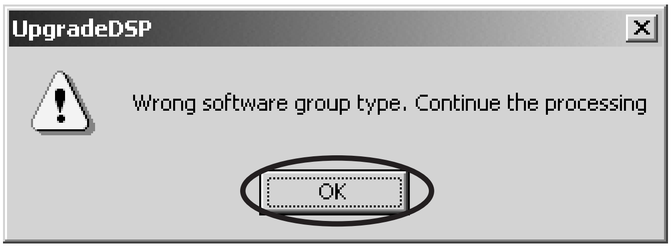
COM ports

COM2

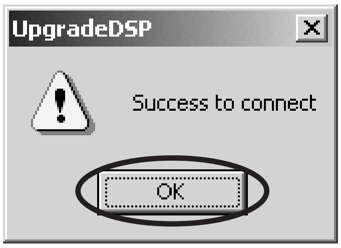
COM1
COM2
COM3

8. Select **19200** in the Baud rate.
9. Click **Start communication**.
10. If it succeeds in connection, the following comments come out. Click **OK**, and close.

8. Baud rate:を **19200** に設定します。
9. **Start communication** をクリックします。
10. DVD Playerと接続が成功すると下記のようなコメントが出ますので **OK** をクリックしてください。


UpgradeDSP

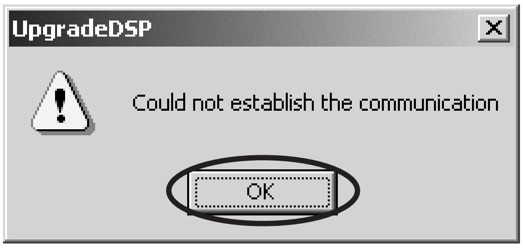
Wrong software group type. Continue the processing


UpgradeDSP

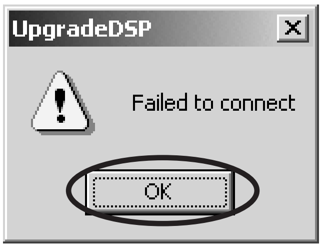
Success to connect

11. If connection goes wrong, the following comments come out. Check the Port setting and Band rate of software again. Click **OK**, and close.

11. もしも下記のコメントが出たときは、COM port 設定または転送レートが PC の設定とあっていませんのでそれぞれ OK をクリックした後に Band rate:と Port setting を PC の設定にあわせてください。


UpgradeDSP

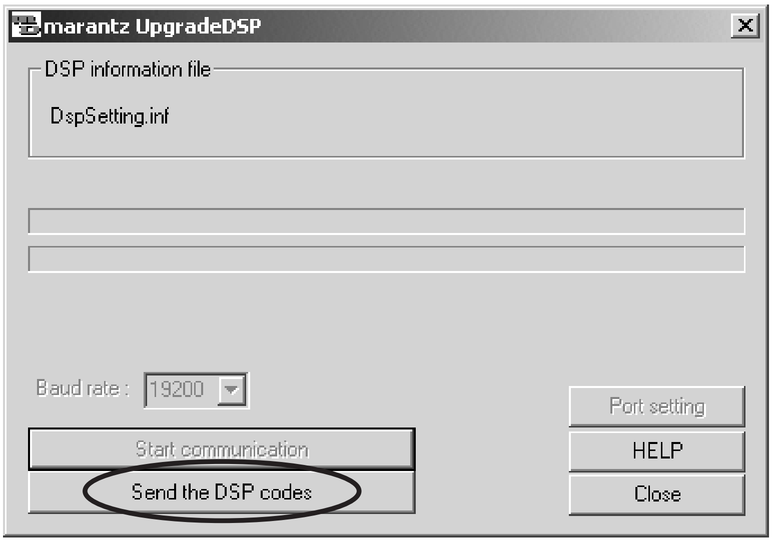
Could not establish the communication


UpgradeDSP

Failed to connect

12. Click **Send the DSP codes**.

12. DVD Playerと接続に成功したら**Send the DSP codes**をクリックします。


marantz UpgradeDSP

DSP information file

DspSetting.inf

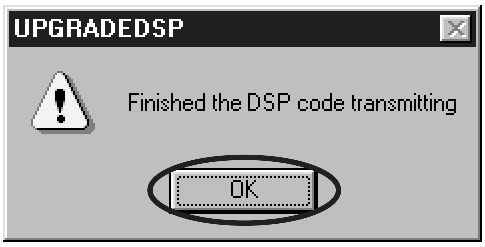
Baud rate : 19200

13. Software to Flash ROM is written in.
At this time, the front display indicates “**DSP_ERASING**”.
And next, the front display indicates “**DSP_WRITING**”.

13. データの転送が行われ書き込み状態が表示されます。このときDVD Player のフロントディスプレイには **DSP_ERASING** と表示され、次に **DSP_WRITING** と表示されます。

14. Click OK, and finish.
    And the front display indicates “**WRITING_OK**”.

14. 書き込みが終わると下記のコメントが出ますので **OK** をクリックします。
    また、DVD Player のフロントディスプレイには **WRITING_OK** と表示されます。



Finished the DSP code transmitting

15. A click of **OK** terminates software.
16. Press the **POWER ON**/**OFF** button, and turn off DVD Player.

15. OKをクリックするとmarantz UpgradeDSPが終了します。
16. DVD PlayerのPOWER ON/OFFボタンを押して電源を切って終了します。

7. UPDATE PANEL MICROPROCESSOR PROCEDURE

Necessary Equipment

- Windows PC (With Serial Port)
- RS-232C Cable straight type (9 Pin female - 9 Pin female)
- Update Tool (FDTsetup.EXE)
- Update data (xxxxx.mot)

Panel Microprocessor Update Procedure

1. **The software installs Procedure to Windows PC**

   Double click the **FDTsetup.exe**.

7. PANEL MICROPROCESSORの書き換え方法

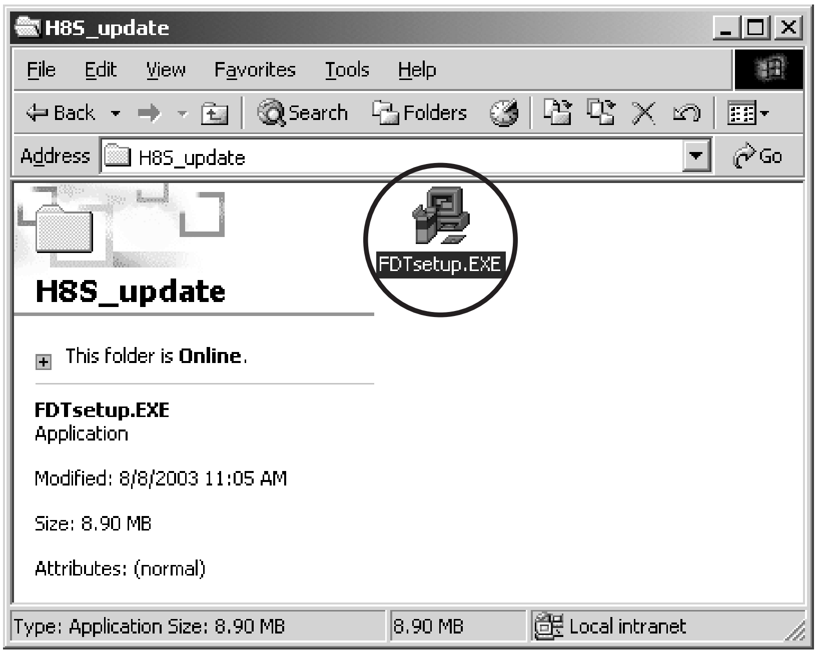
必要機器

- Windows PC (Serial Port 付き)
- RS-232C ストレートケーブル(9Pin メスー 9Pin メス)
- 書き込み用データ FDTsetup.EXE、xxxxx.mot (update file)

書き込み手順

1. 書き込みソフトウェアのインストール

   FDTsetup.exe をダブルクリックします。


H8S_update
File
Edit
View
Favorites
Tools
Help
Back
Search
Folders
Address
H8S_update
Go
FDTsetup.EXE
H8S_update

This folder is **Online**.

FDTsetup.EXE
Application

Modified: 8/8/2003 11:05 AM

Size: 8.90 MB

Attributes: (normal)

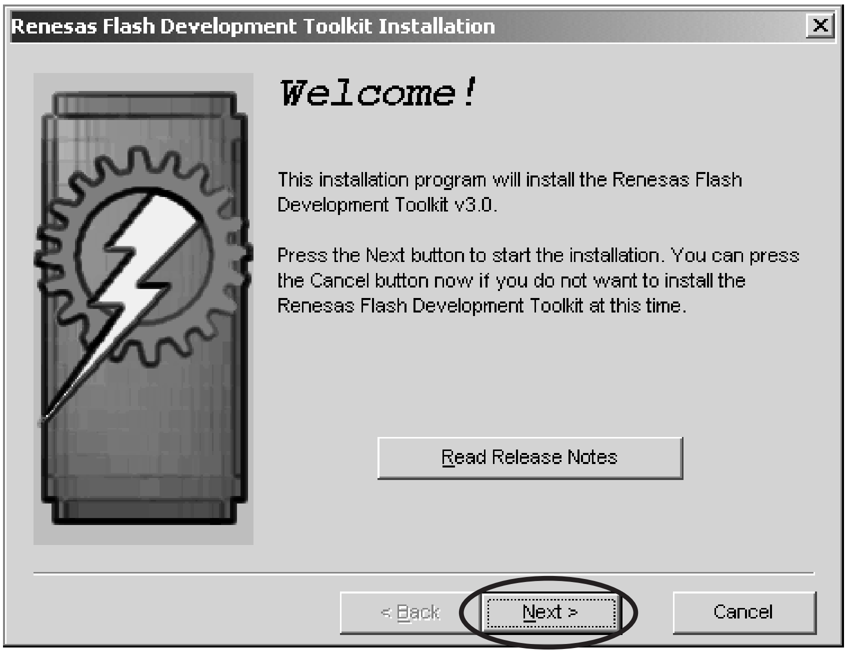
Type: Application Size: 8.90 MB

8.90 MB

Local intranet

Click **Next**.

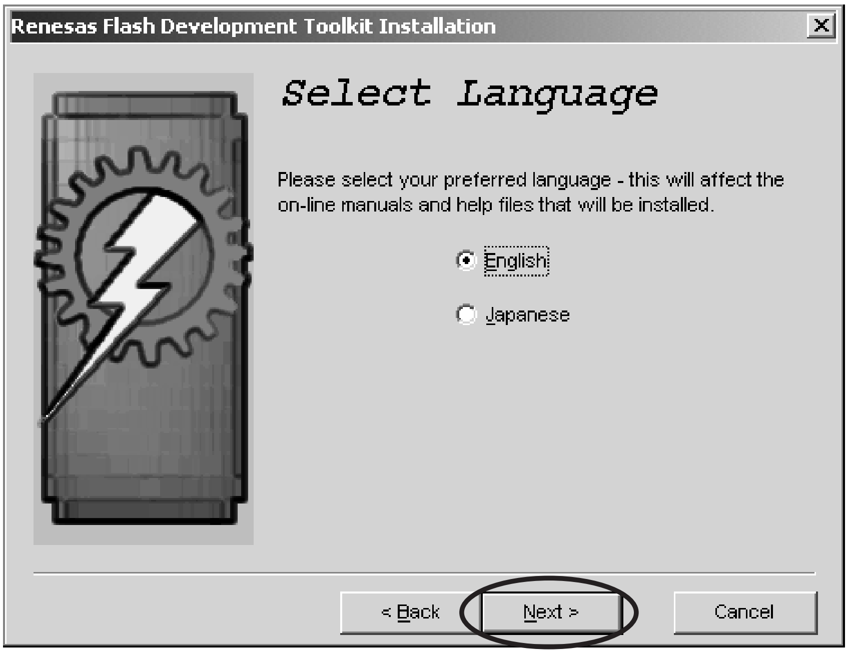
インストールウィザードが起動します。
Next をクリックします。


Renesas Flash Development Toolkit Installation
Welcome!
Read Release Notes
< Back
Next >
Cancel

This installation program will install the Renesas Flash Development Toolkit v3.0.

Press the Next button to start the installation. You can press the Cancel button now if you do not want to install the Renesas Flash Development Toolkit at this time.

Choose the language. And click **Next**.　　言語を選んで **Next** をクリックします。



Renesas Flash Development Toolkit Installation

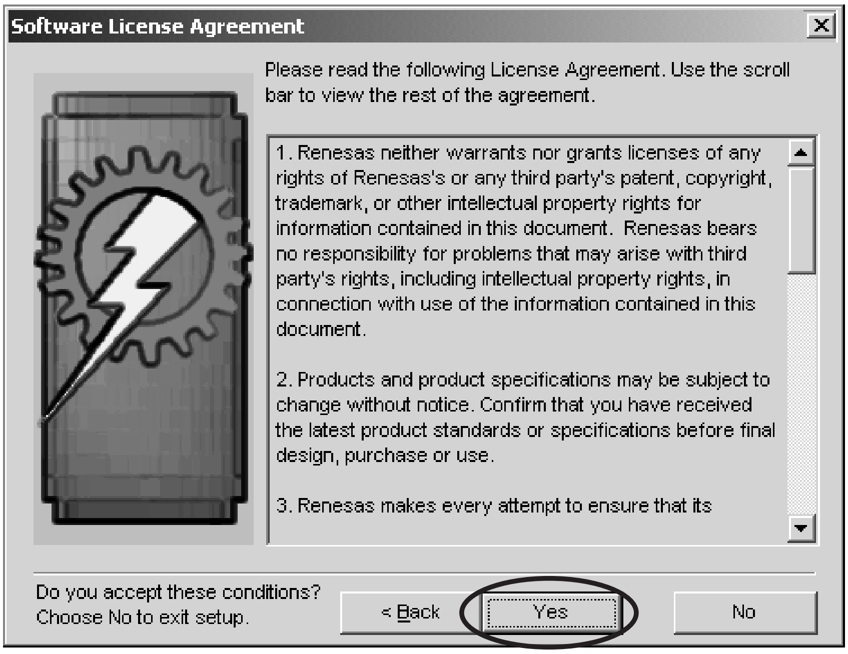
Select Language

Please select your preferred language - this will affect the on-line manuals and help files that will be installed.

● English

○ Japanese

Click **Yes**.　　**Yes** をクリックします。



Software License Agreement

Please read the following License Agreement. Use the scroll bar to view the rest of the agreement.

1. Renesas neither warrants nor grants licenses of any rights of Renesas's or any third party's patent, copyright, trademark, or other intellectual property rights for information contained in this document. Renesas bears no responsibility for problems that may arise with third party's rights, including intellectual property rights, in connection with use of the information contained in this document.

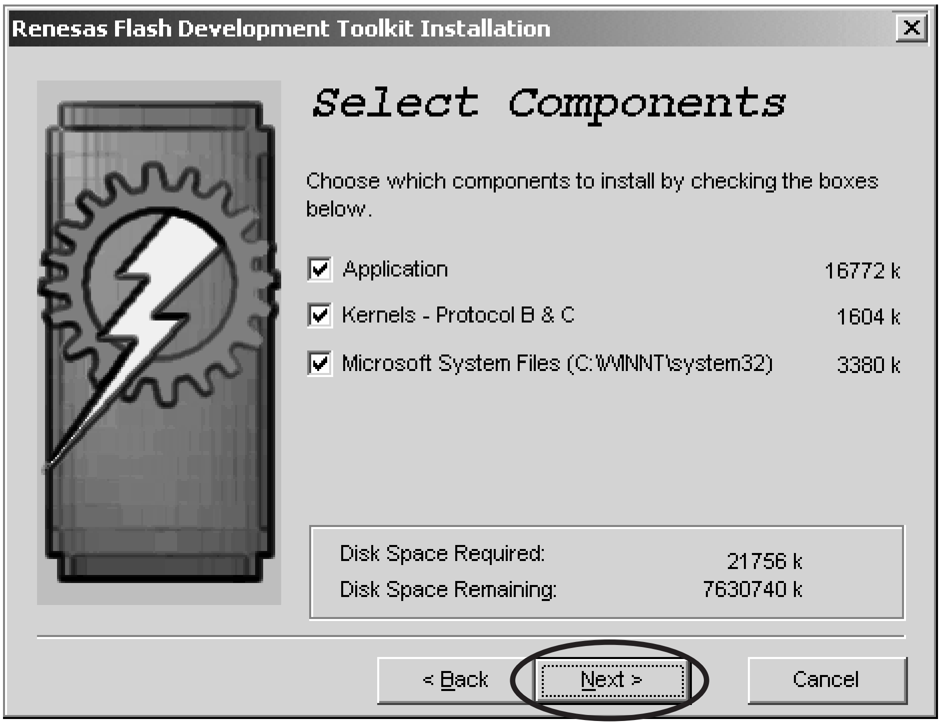
2. Products and product specifications may be subject to change without notice. Confirm that you have received the latest product standards or specifications before final design, purchase or use.

3. Renesas makes every attempt to ensure that its

Do you accept these conditions? Choose No to exit setup.

Check to the all check boxes. And click **Next**.

チェックボックス全てにチェックが入っていることを確認して **Next** をクリックします。



Renesas Flash Development Toolkit Installation

Select Components

Choose which components to install by checking the boxes below.

☑ Application 16772 k

☑ Kernels - Protocol B & C 1604 k

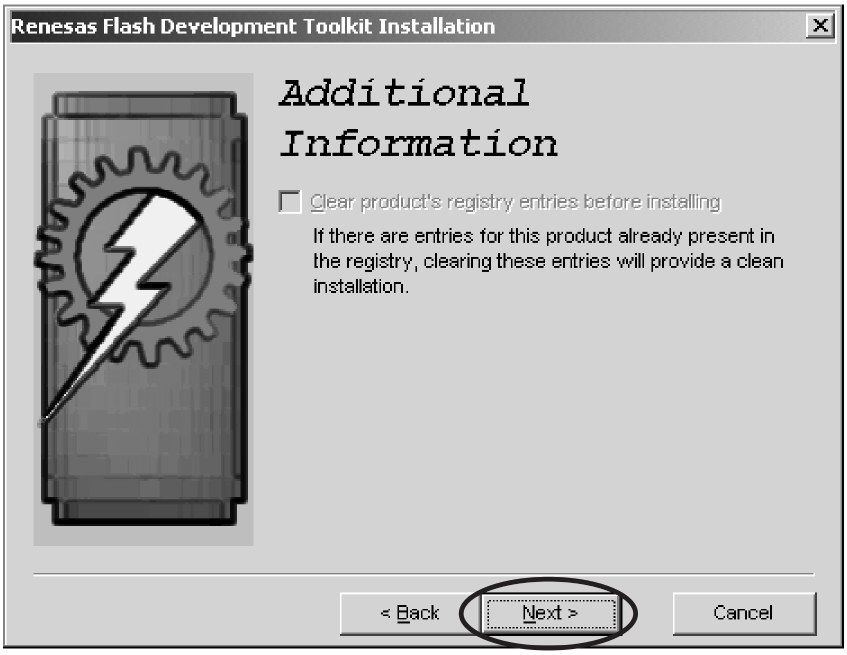
☑ Microsoft System Files (C:\WINNT\system32) 3380 k

Disk Space Required: 21756 k

Disk Space Remaining: 7630740 k

Click **Next**.

Next をクリックします。



Renesas Flash Development Toolkit Installation

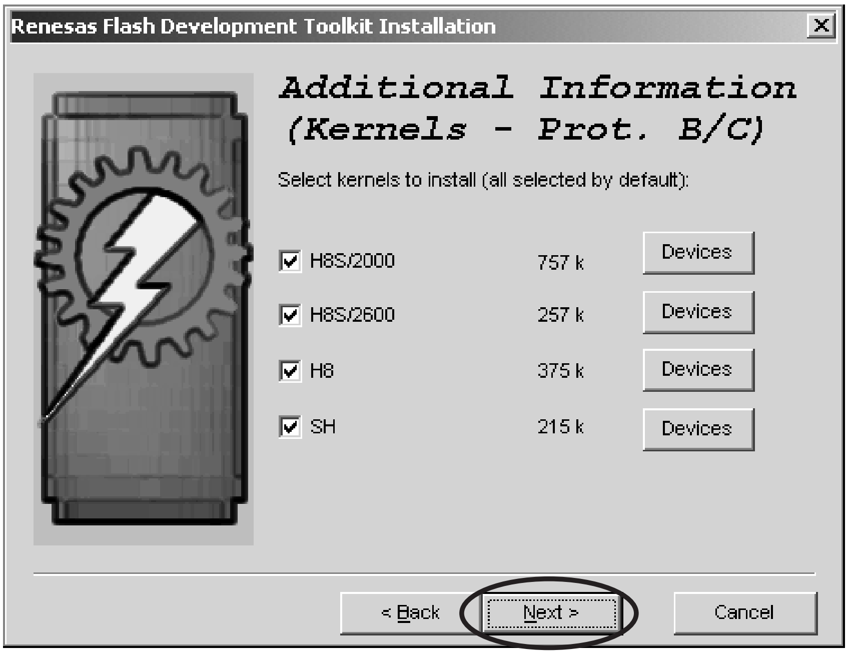
Additional Information

☐ Clear product's registry entries before installing

If there are entries for this product already present in the registry, clearing these entries will provide a clean installation.

Check to the all check boxes. And click **Next**.

チェックボックス全てにチェックが入っていることを確認して **Next** をクリックします。



Renesas Flash Development Toolkit Installation

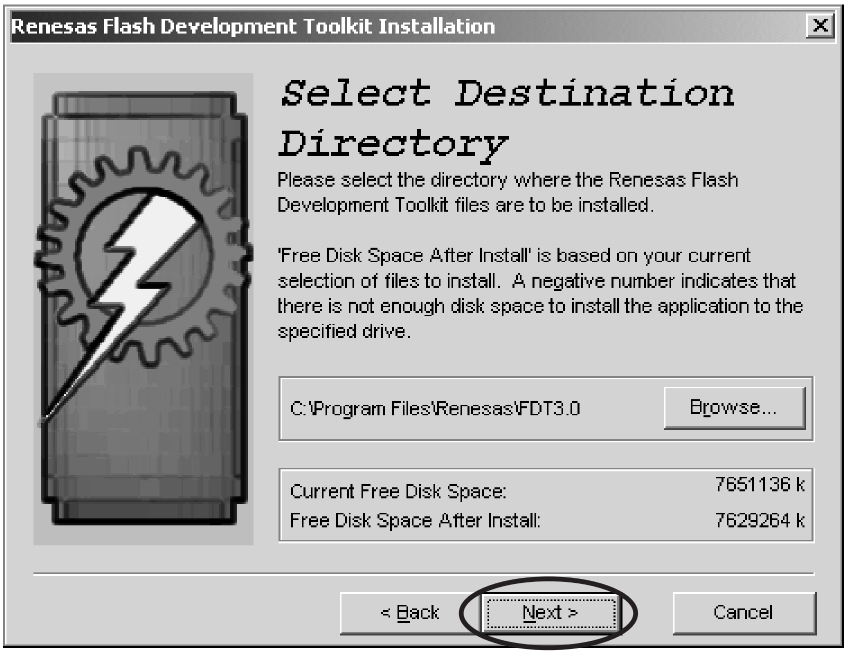
Additional Information (Kernels - Prot. B/C)

Select kernels to install (all selected by default):

☑ H8S/2000	757 k	Devices
☑ H8S/2600	257 k	Devices
☑ H8	375 k	Devices
☑ SH	215 k	Devices

Click **Next**.

Next をクリックします。



Renesas Flash Development Toolkit Installation

Select Destination Directory

Please select the directory where the Renesas Flash Development Toolkit files are to be installed.

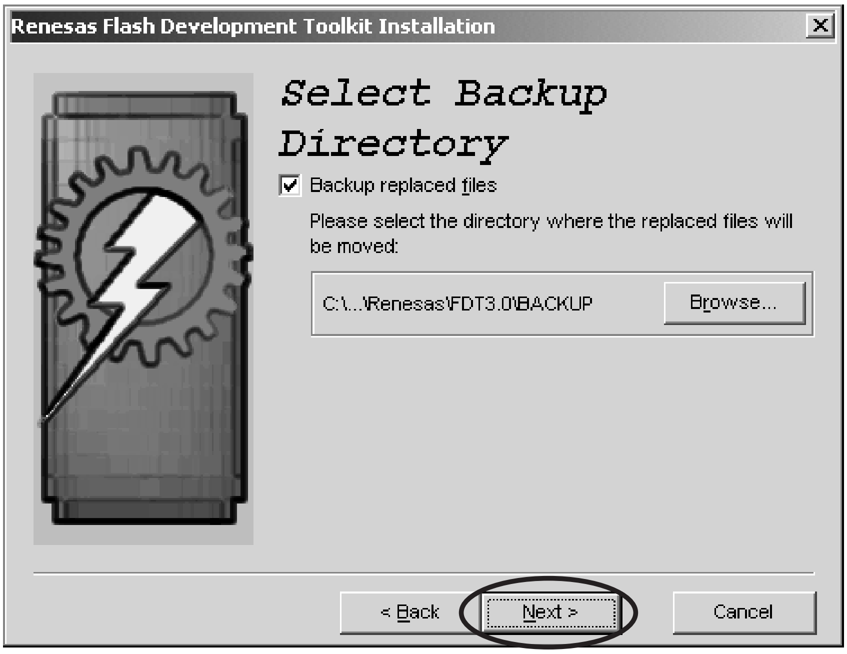
'Free Disk Space After Install' is based on your current selection of files to install. A negative number indicates that there is not enough disk space to install the application to the specified drive.

C:\Program Files\Renesas\FDT3.0

Current Free Disk Space: 7651136 k

Free Disk Space After Install: 7629264 k

Click **Next**. **Next** をクリックします。

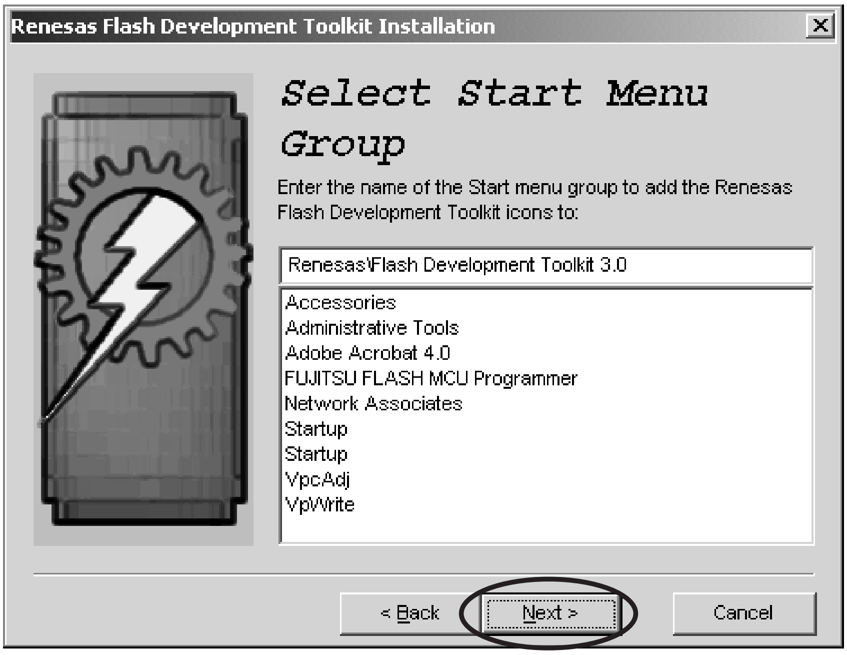

Renesas Flash Development Toolkit Installation
Select Backup Directory
< Back
Next >
Cancel
Browse...

☑ Backup replaced files

Please select the directory where the replaced files will be moved:

C:\...\Renesas\FDT3.0\BACKUP

Click **Next**. **Next** をクリックします。


Renesas Flash Development Toolkit Installation
Select Start Menu Group
< Back
Next >
Cancel

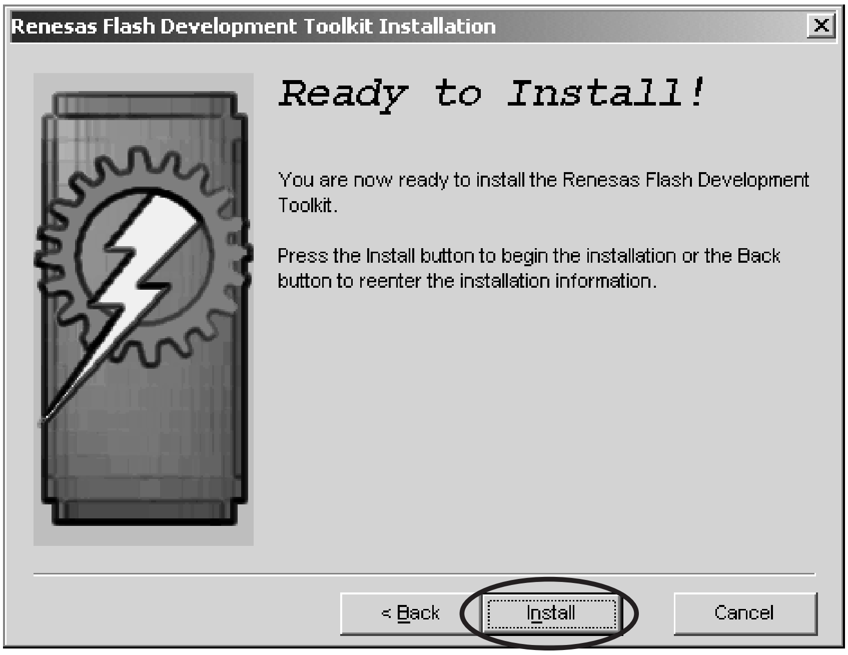
Enter the name of the Start menu group to add the Renesas Flash Development Toolkit icons to:

Renesas\Flash Development Toolkit 3.0

Accessories
Administrative Tools
Adobe Acrobat 4.0
FUJITSU FLASH MCU Programmer
Network Associates
Startup
Startup
VpcAdj
VpWrite

Click **Install**.

Install をクリックします。



Renesas Flash Development Toolkit Installation

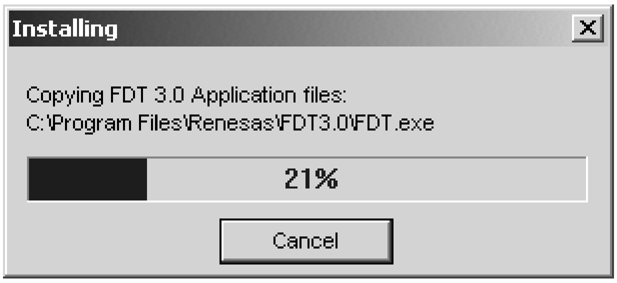
Ready to Install!

You are now ready to install the Renesas Flash Development Toolkit.

Press the Install button to begin the installation or the Back button to reenter the installation information.

The status bar appears.

インストールを開始します。



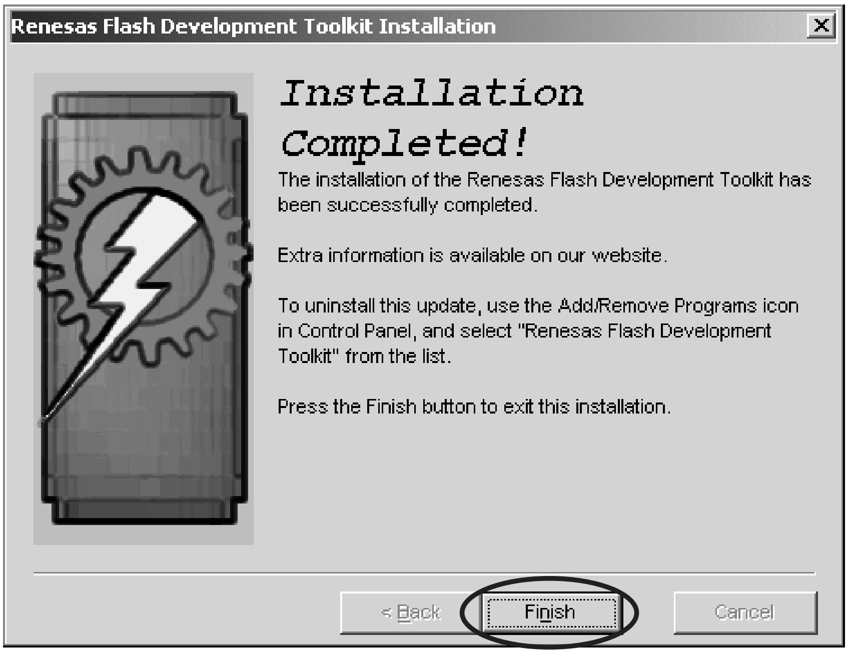
Installing

Copying FDT 3.0 Application files:
C:\Program Files\Renesas\FDT3.0\FDT.exe

21%

Click **Finish**.

Finish をクリックして書き込みソフトウェアのインストールを完了します。



Renesas Flash Development Toolkit Installation

Installation Completed!

The installation of the Renesas Flash Development Toolkit has been successfully completed.

Extra information is available on our website.

To uninstall this update, use the Add/Remove Programs icon in Control Panel, and select "Renesas Flash Development Toolkit" from the list.

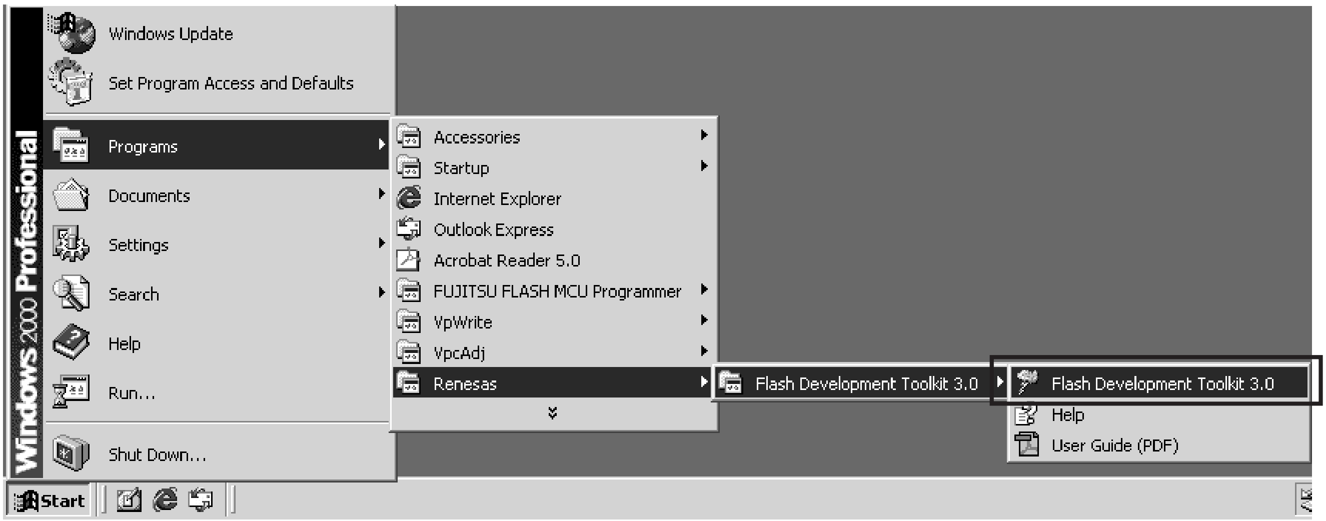
Press the Finish button to exit this installation.

2. The writing software setup procedure.

Launch up the writing software.
Click **Start**, **Programs**, **Renesas**, **Flash Development Toolkit 3.0** and **Flash Development Toolkit 3.0**.

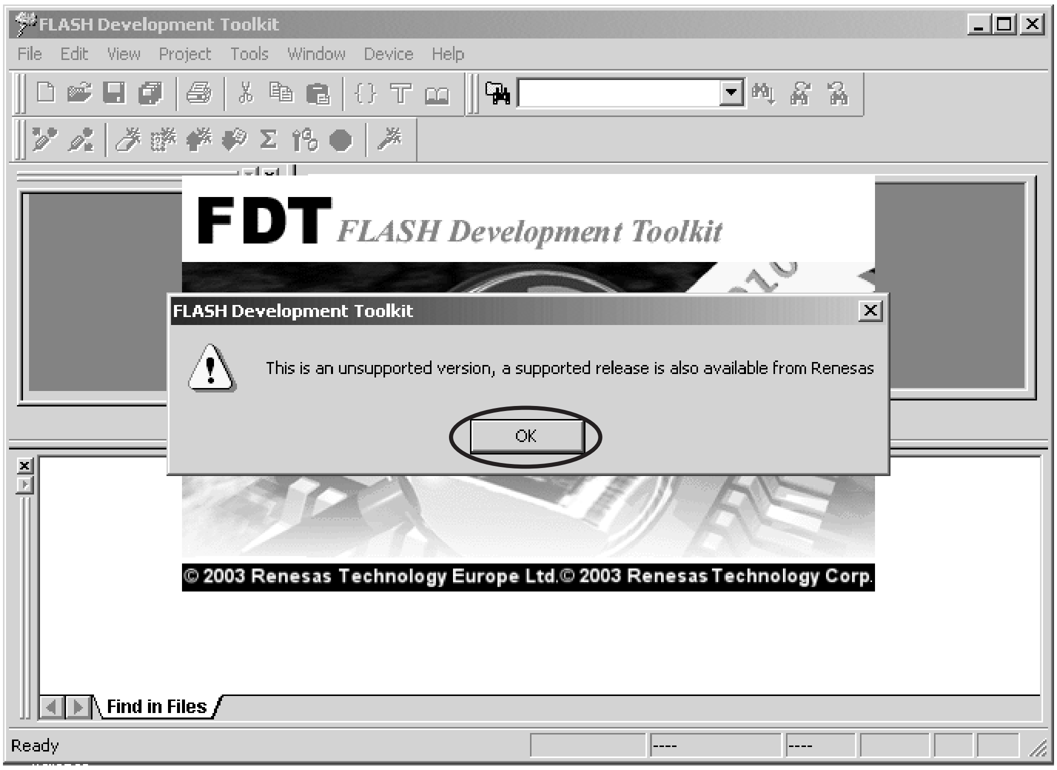
2. 書き込みソフトウェアの設定

Start → **Programs** → **Renesas** → **Flash Development Toolkit 3.0**→**Flash Development Toolkit 3.0**をクリックします。


Windows 2000 Professional
Windows Update
Set Program Access and Defaults
Programs
Documents
Settings
Search
Help
Run...
Shut Down...
Start
Accessories
Startup
Internet Explorer
Outlook Express
Acrobat Reader 5.0
FUJITSU FLASH MCU Programmer
VpWrite
VpcAdj
Renesas
Flash Development Toolkit 3.0
Flash Development Toolkit 3.0
Help
User Guide (PDF)

Click **OK**. (This window appears at every starting.)

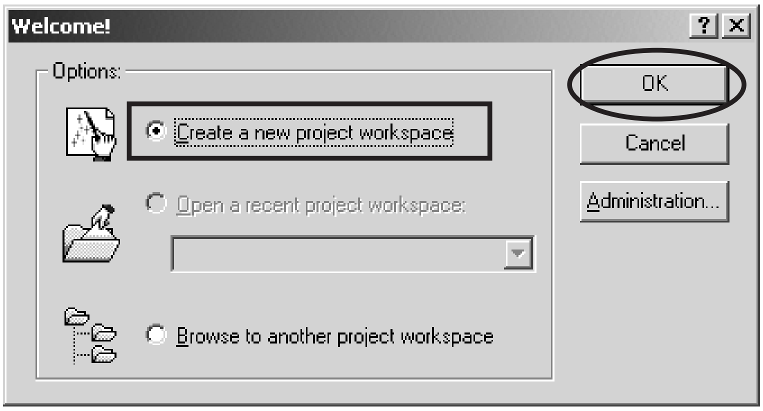
OKをクリックします。(起動のたびに下記のコマンドが出ますのでその都度 **OK** をクリックしてください。)


FLASH Development Toolkit
File
Edit
View
Project
Tools
Window
Device
Help
FDT FLASH Development Toolkit
© 2003 Renesas Technology Europe Ltd.© 2003 Renesas Technology Corp.
FLASH Development Toolkit
OK
Find in Files
Ready

This is an unsupported version, a supported release is also available from Renesas

Check **Create a new project workspace**, and click **OK**.

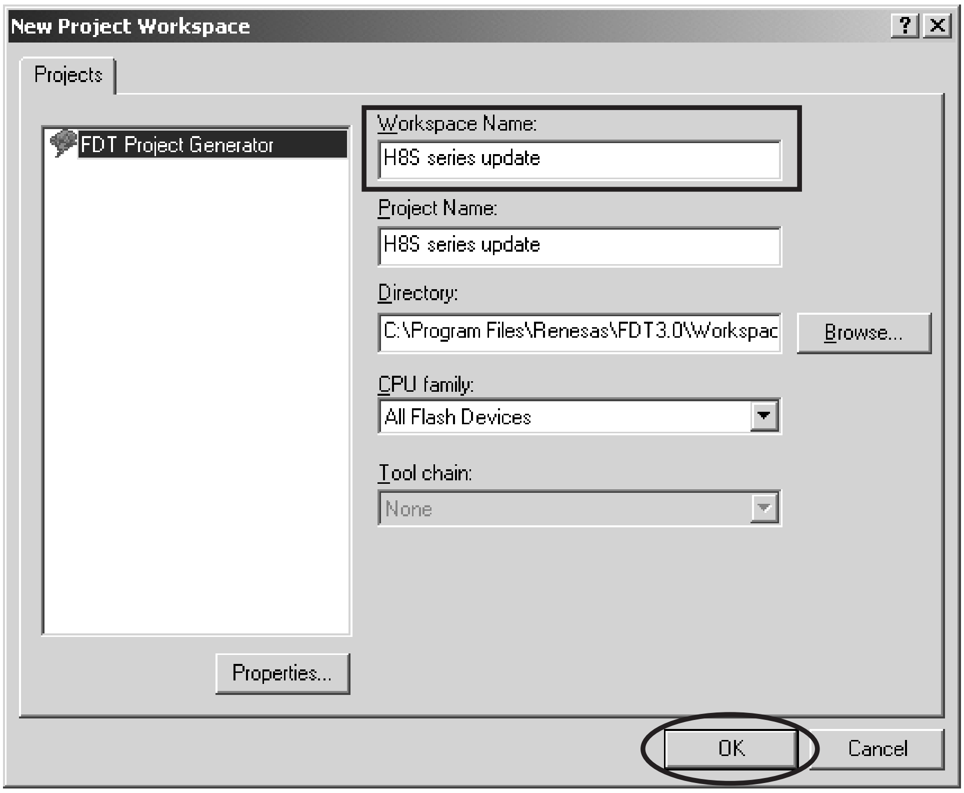
Create a new project workspaceにチェックを入れ、**OK**をクリックします。


Welcome!
Options:
Open a recent project workspace:
Browse to another project workspace
OK
Cancel
Administration...

● Create a new project workspace

H8 series update is inputted into the **Workspace name**.
(It is simultaneously inputted into **Project Name**.)
Click **OK**.

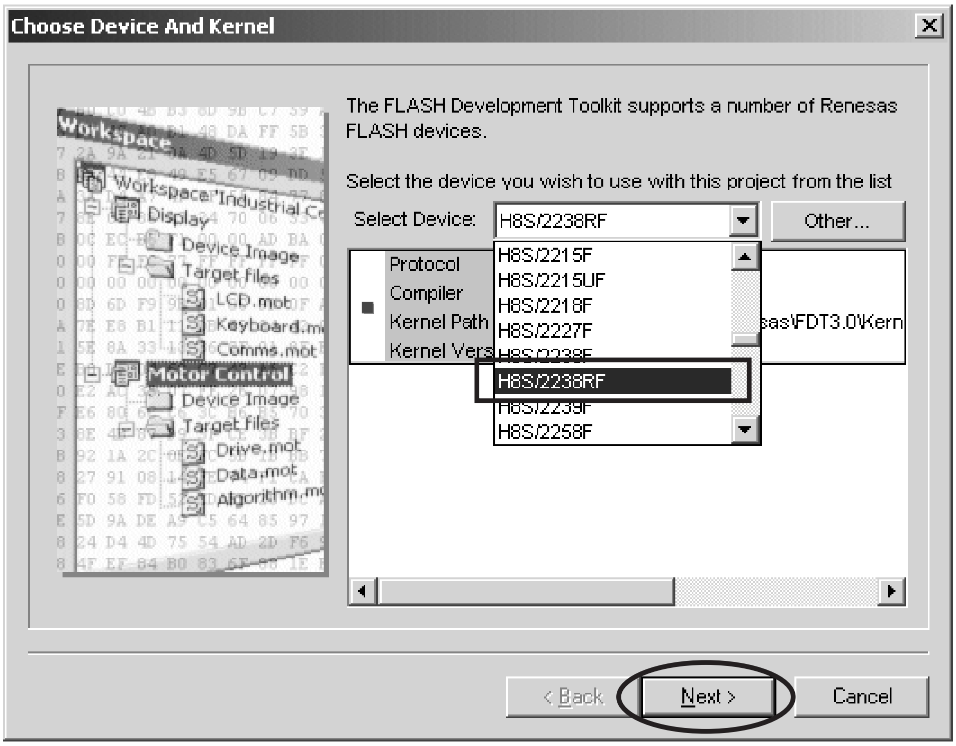
Workspace Nameに**H8 series update**と入力します。(同時に **Project Name** にも入力されます。)
OK をクリックします。


New Project Workspace
Projects
FDT Project Generator
Browse...
Properties...
OK
Cancel

Workspace Name: H8S series update
Project Name: H8S series update
Directory: C:\Program Files\Renesas\FDT3.0\Workspac
CPU family: All Flash Devices
Tool chain: None

Choose the **H8S/2238RF** in **Select Device**.
Click **Next**.

Select Device から **H8S/2238RF** を選びクリックします。
Next をクリックします。



Choose Device And Kernel

The FLASH Development Toolkit supports a number of Renesas FLASH devices.

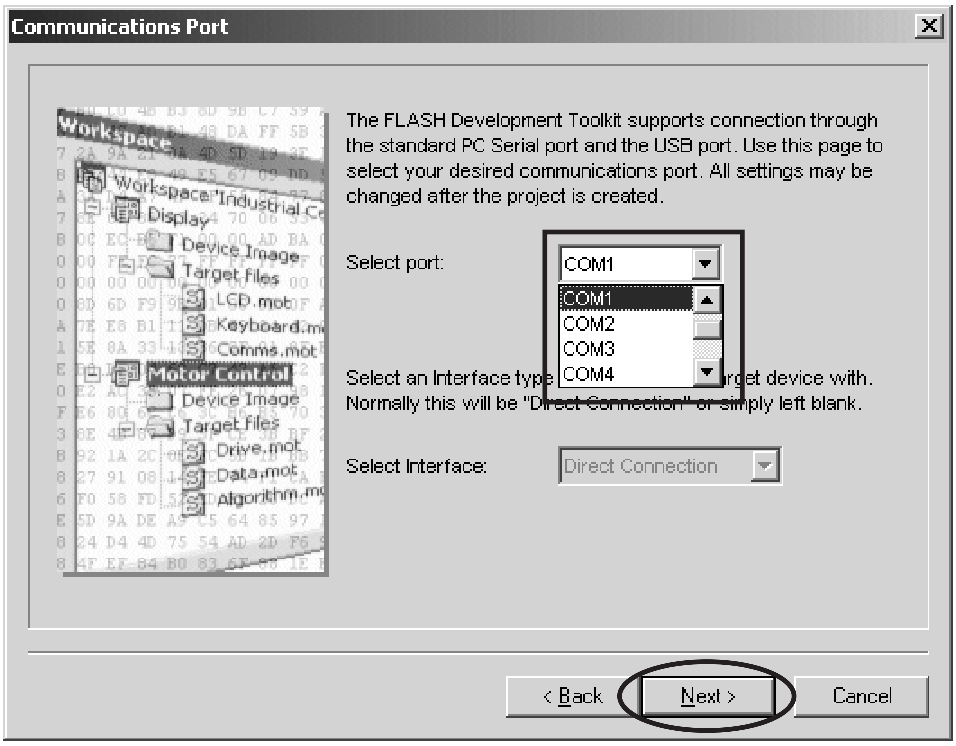
Select the device you wish to use with this project from the list

Select Device: H8S/2238RF

Other...
H8S/2215F
H8S/2215UF
H8S/2218F
H8S/2227F
H8S/2238F
H8S/2238RF
H8S/2239F
H8S/2258F
Protocol
Compiler
Kernel Path
Kernel Vers
sas\FDT3.0\Kern
< Back
Next >
Cancel

Choose the Serial port No. in the **Select Port**.
Click **Next**.

Select Portから接続する**Serial Port番号**を選びクリックします。
Next をクリックします。



Communications Port

The FLASH Development Toolkit supports connection through the standard PC Serial port and the USB port. Use this page to select your desired communications port. All settings may be changed after the project is created.

Select port: COM1

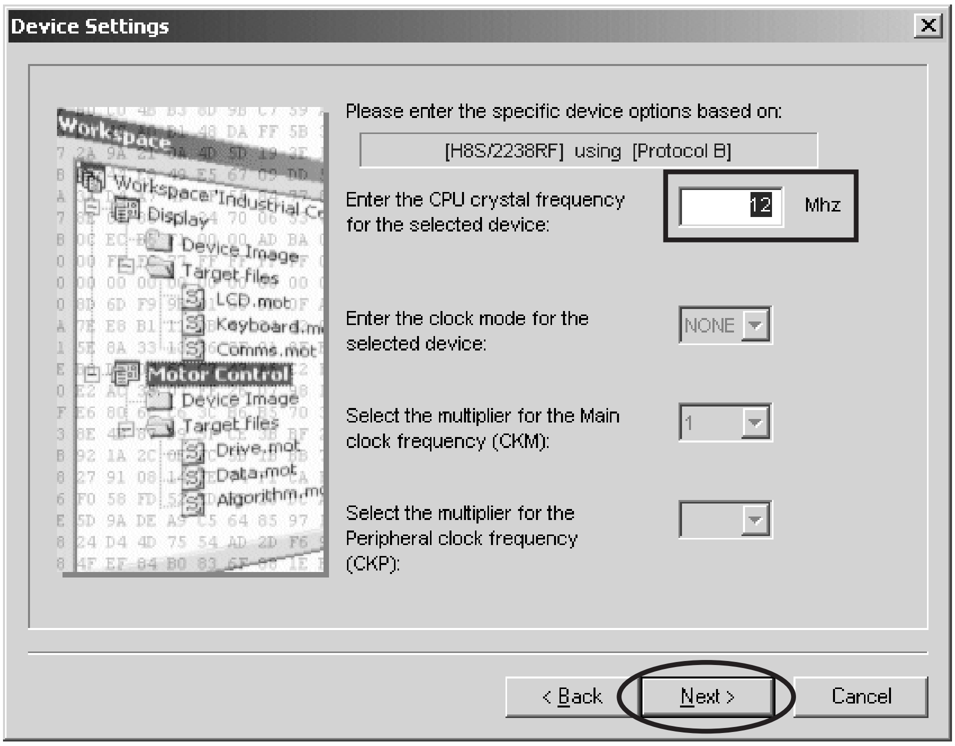
Select an Interface typ… …rget device with. Normally this will be "Di… …mply left blank.

Select Interface: Direct Connection

COM1
COM2
COM3
COM4
< Back
Next >
Cancel

12 is inputted into the **Enter the CPU crystal frequency for the selected device**.
Click **Next**.

Enter the CPU crystal frequency for the selected device: に**12**と入力します。
Nextをクリックします。


Device Settings
Workspace
Display
Device Image
Target files
LCD.mot
Keyboard.m
Comms.mot
Motor Control
Device Image
Target files
Drive.mot
Data.mot
Algorithm.m
< Back
Next >
Cancel

Please enter the specific device options based on:
[H8S/2238RF] using [Protocol B]

Enter the CPU crystal frequency for the selected device: 12 Mhz

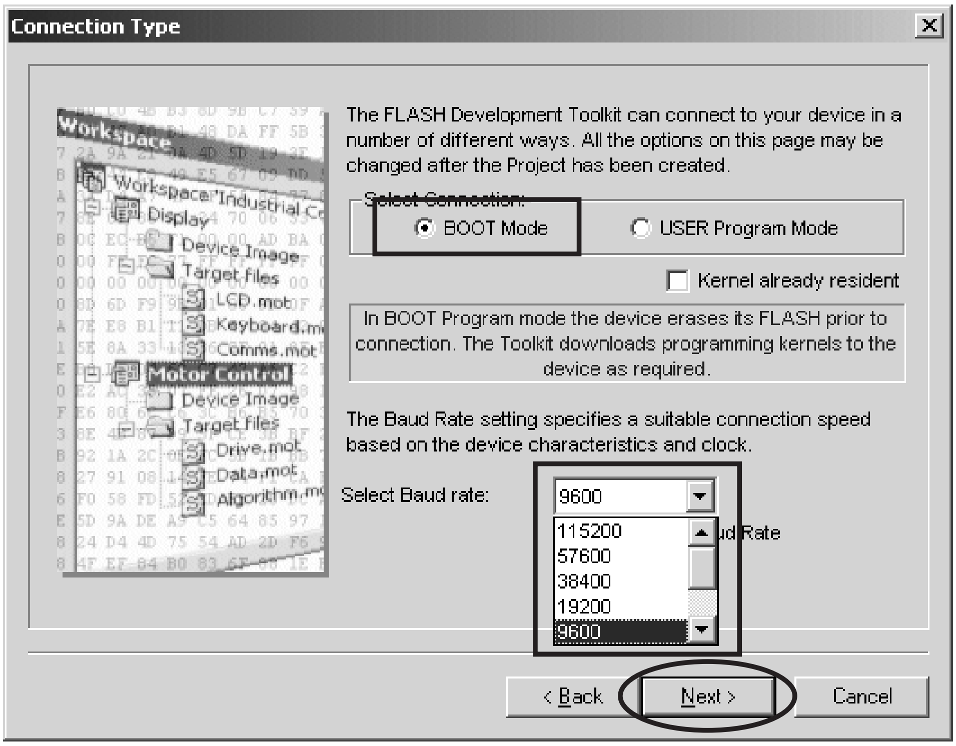
Enter the clock mode for the selected device: NONE

Select the multiplier for the Main clock frequency (CKM): 1

Select the multiplier for the Peripheral clock frequency (CKP):

Check the **BOOT Mode** in **Select Connection**.
Choose the **9600** in **Select Baud rate**.
Remark: Please remove check mark, if it is contained in Use Default Baud Rate.

Select Connection:から **BOOT Mode** にチェックを入れます。
Select Baud rate:から**9600**を選びクリックします。
注意) Use Default Baud Rateにチェックが入っているとBaud Rateを変更できませんのでチェックを外してください。


Connection Type
Workspace
Display
Device Image
Target files
LCD.mot
Keyboard.m
Comms.mot
Motor Control
Device Image
Target files
Drive.mot
Data.mot
Algorithm.m
ud Rate
< Back
Next >
Cancel

The FLASH Development Toolkit can connect to your device in a number of different ways. All the options on this page may be changed after the Project has been created.

Select Connection:
● BOOT Mode ○ USER Program Mode

☐ Kernel already resident

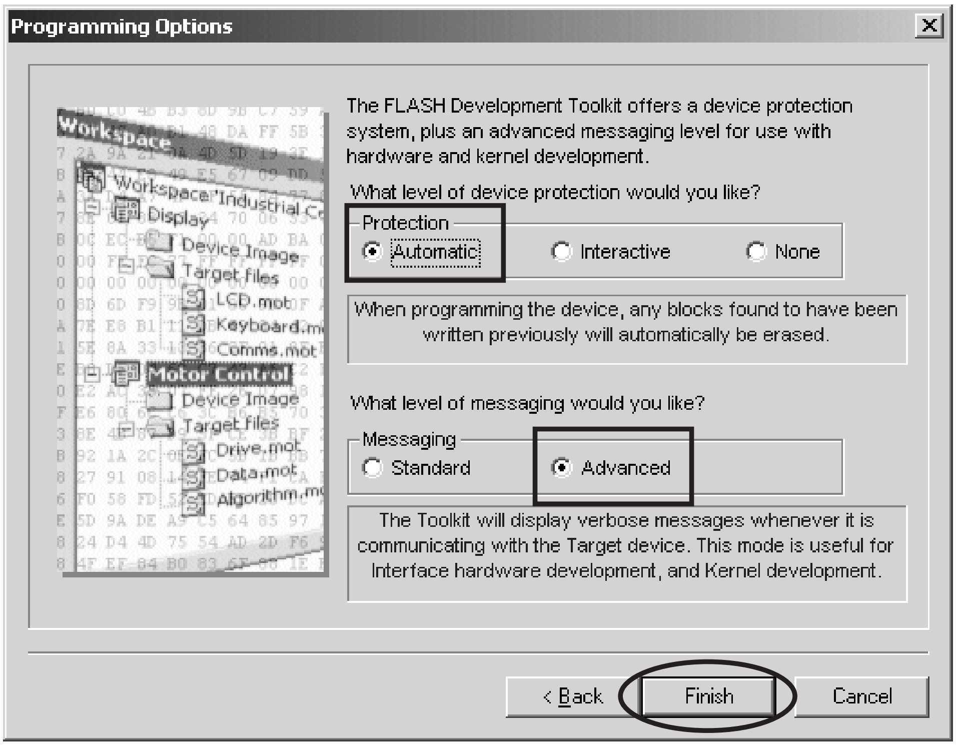
In BOOT Program mode the device erases its FLASH prior to connection. The Toolkit downloads programming kernels to the device as required.

The Baud Rate setting specifies a suitable connection speed based on the device characteristics and clock.

Select Baud rate: 9600
115200
57600
38400
19200
9600

Check the **Automatic** in Protection.
Check the **Advanced** in Messaging.
Click **Finish**.

Protection から **Automatic** にチェックを入れます。
Messaging から **Advanced** にチェックを入れます。
Finish をクリックします。
以上で設定は完了です。


Programming Options

The FLASH Development Toolkit offers a device protection system, plus an advanced messaging level for use with hardware and kernel development.

What level of device protection would you like?

Protection: ● Automatic ○ Interactive ○ None

When programming the device, any blocks found to have been written previously will automatically be erased.

What level of messaging would you like?

Messaging: ○ Standard ● Advanced

The Toolkit will display verbose messages whenever it is communicating with the Target device. This mode is useful for Interface hardware development, and Kernel development.

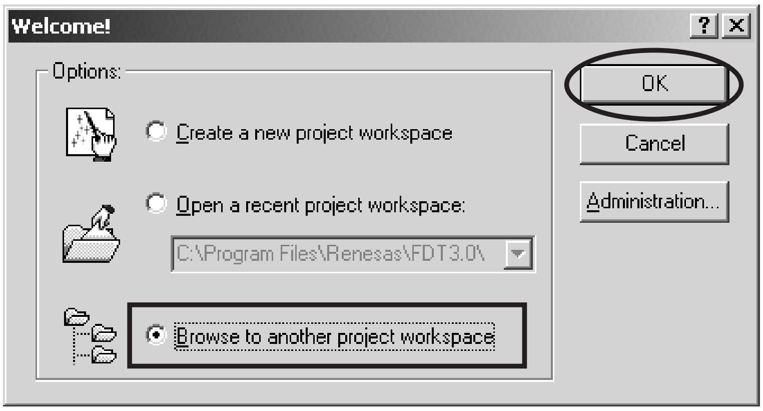
Workspace
Workspace 'Industrial C
Display
Device Image
Target files
LCD.mot
Keyboard.m
Comms.mot
Motor Control
Device Image
Target files
Drive.mot
Data.mot
Algorithm.m
< Back
Finish
Cancel

3. **Writing Procedure**
   When you carry out continuously from **"2. The writing software setup procedure"**, please move on to **"Cable connection"** of next page.
   Software is launched when the writing software is being terminated.
   Click **Start**, **Programs**, **Renesas**, **Flash Development Toolkit 3.0** and **Flash Development Toolkit 3.0**.

   Check **Browse to another project workspace**, and click **OK**.

3. 書き込み方法
   インストールから引き続いて作業をしている場合は次頁の「**PC と DVD Player の接続**」に進んでください。
   書き込みソフトウェアを終了させている場合は **Start** → **Programs** → **Renesas** → **Flash Development Toolkit 3.0** → **Flash Development Toolkit 3.0** をクリックして起動します。

   Browse to another project workspace にチェックを入れて OK をクリックします。


Welcome!

Options:

○ Create a new project workspace

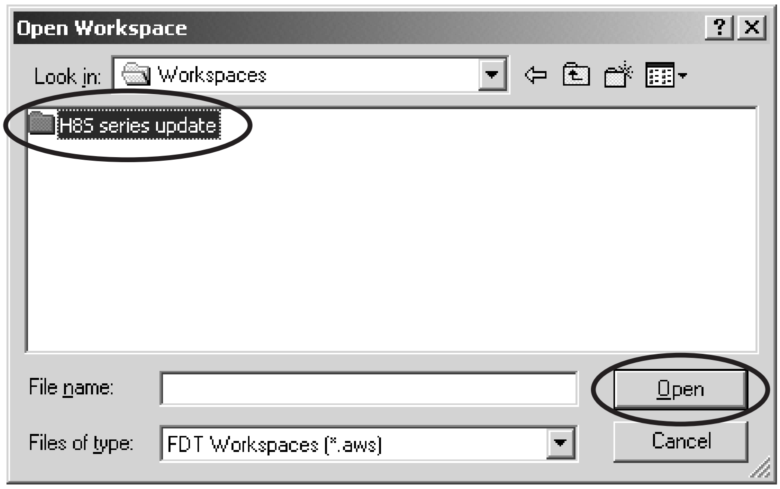
○ Open a recent project workspace: C:\Program Files\Renesas\FDT3.0\

● Browse to another project workspace

?
OK
Cancel
Administration...

Click the **H8S series update**, and click **Open**.

H8S series updateをクリックして**Open**をクリックします。



Look in: Workspaces

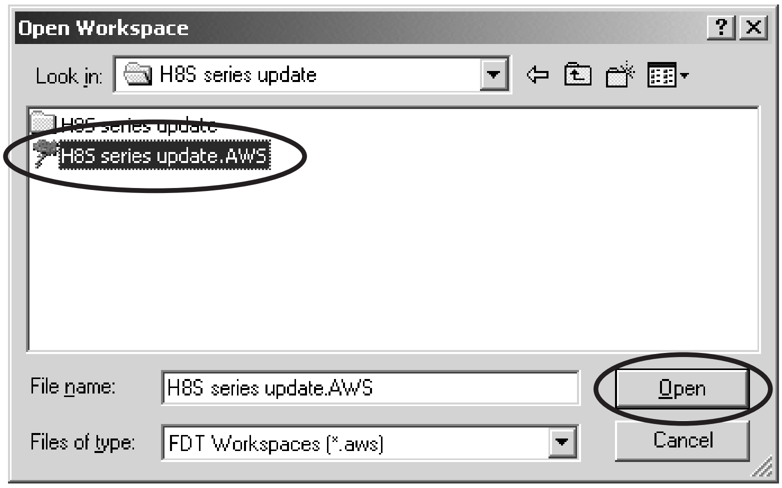
H8S series update

File name:

Files of type: FDT Workspaces (*.aws)

Click the **H8S series update.AWS**, and click **Open**.

H8S series update.AWSをクリックして、**Open**をクリックします。



Look in: H8S series update

H8S series update

H8S series update.AWS

File name: H8S series update.AWS

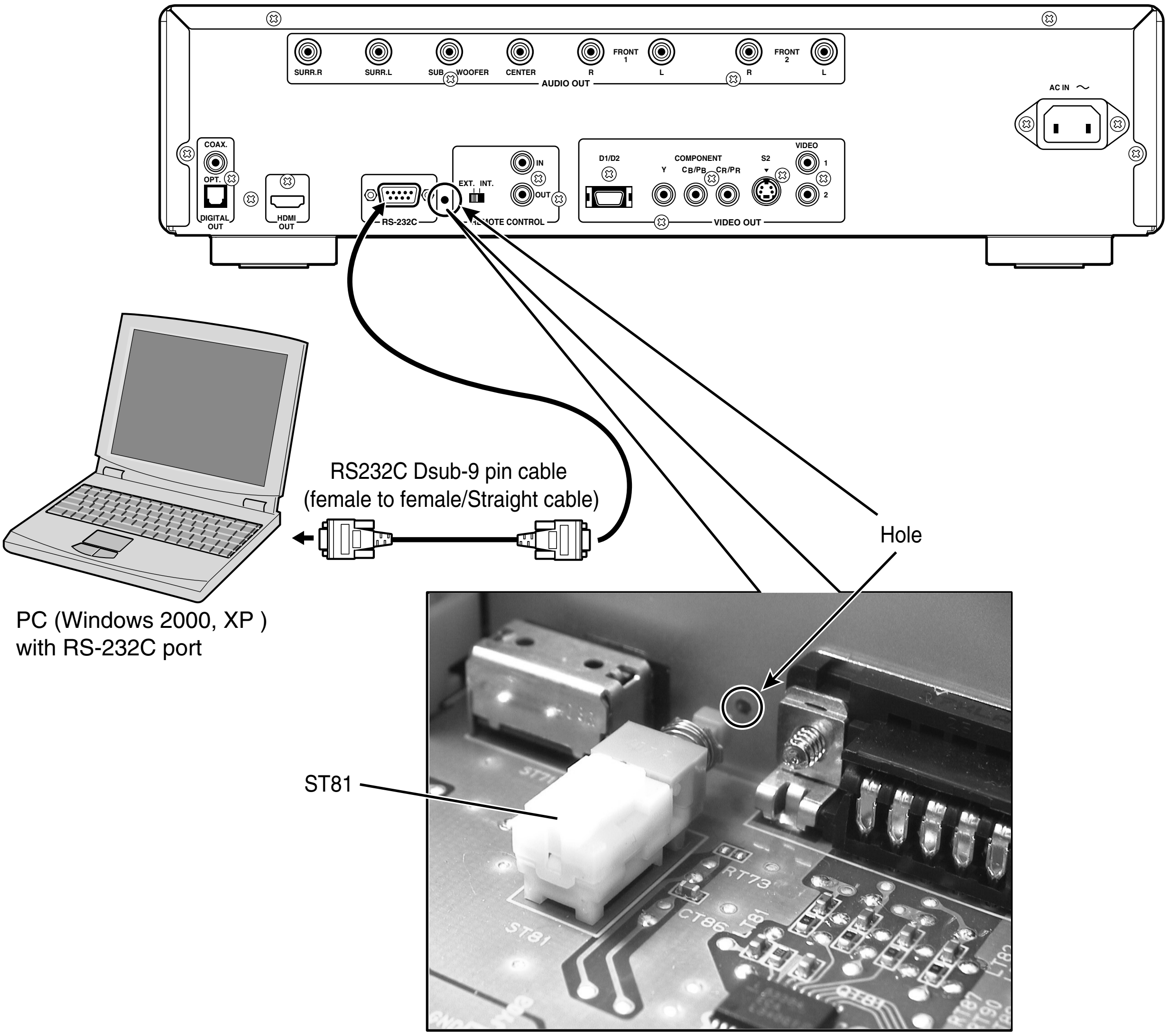
Files of type: FDT Workspaces (*.aws)

Remark: The file is stored in c:\Program Files\Renesas\FDT3.0\Workspace\H8S series update.

注意）ファイルはc:\Program Files\Renesas\FDT3.0\Workspace\H8S series updateに格納されています。

Cable connection

PCとDVD Playerの接続


SURR.R
SURR.L
SUB WOOFER
CENTER
FRONT 1
FRONT 2
R
L
AUDIO OUT
AC IN ～
COAX.
OPT.
DIGITAL OUT
HDMI OUT
RS-232C
EXT. INT.
IN
OUT
REMOTE CONTROL
D1/D2
COMPONENT
Y CB/PB CR/PR
S2
VIDEO
1
2
VIDEO OUT
RS232C Dsub-9 pin cable
(female to female/Straight cable)
Hole
PC (Windows 2000, XP)
with RS-232C port
ST81

Connect RS-232C on the rear panel of the DVD Player and Serial Port of windows PC with RS-232C cable.

Insert a thin rod to the hole near the RS-232C Port and push the switch inside to turn on the switch.

Turn on by the **POWER** switch of DVD Player.

The DVD Player's STANDBY (red) and DISPLAY OFF (blue) indicators turn on lights simultaneously.

Windows PCのSerial PortとDVD PlayerのRS-232C PortをRS-232Cケーブルで接続します。

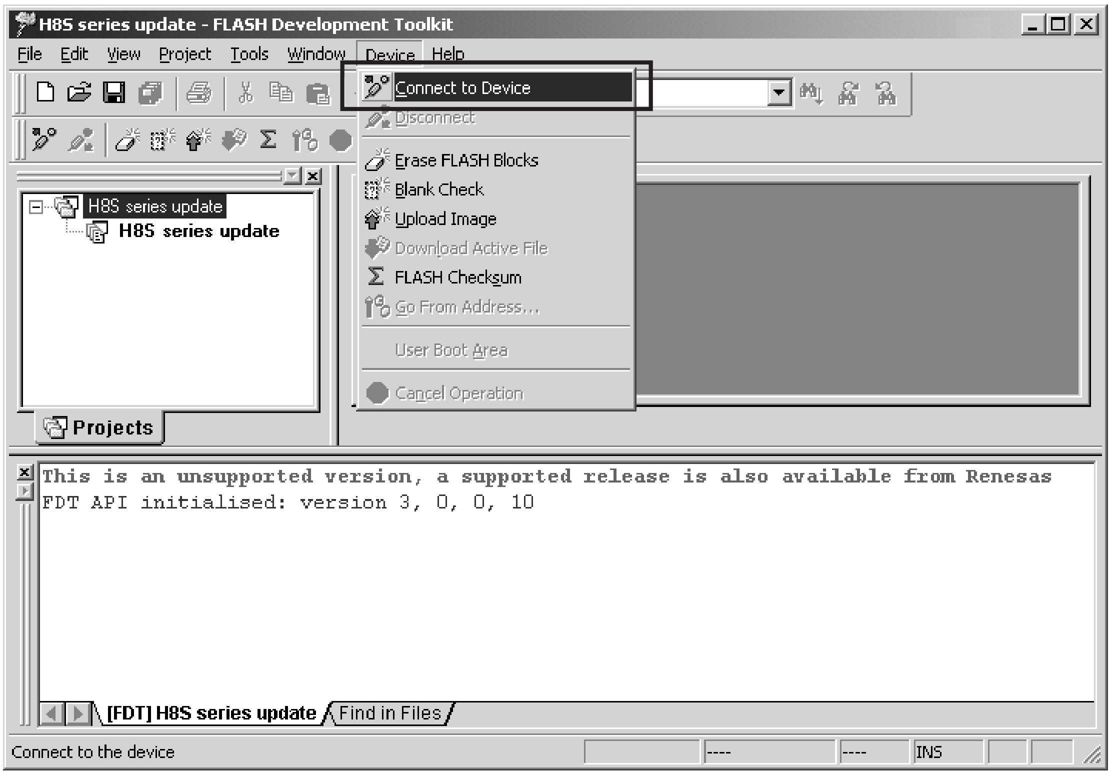
細い棒を使いDVD PlayerのRS-232C Portの右となりにある穴からスイッチ(ST81)を押して書き込みモードに入ります。

DVD PlayerのFront Panelにある電源スイッチを押して電源を入れます。

DVD PlayerのSTANDBY(赤)、DISPLAY OFF(青)が点灯します。

Click **Device** in the menu bar and select **Connect to Device**.

書き込みソフトウェアの**Device**から**Connect to Device**を選びクリックします。

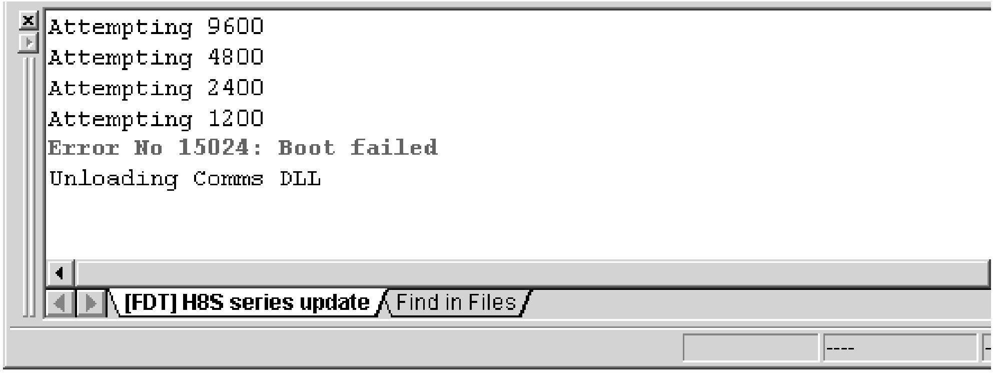

H8S series update - FLASH Development Toolkit
File Edit View Project Tools Window Device Help
Connect to Device
Disconnect
Erase FLASH Blocks
Blank Check
Upload Image
Download Active File
FLASH Checksum
Go From Address...
User Boot Area
Cancel Operation
H8S series update
H8S series update
Projects
[FDT] H8S series update
Find in Files
Connect to the device

INS

```
This is an unsupported version, a supported release is also available from Renesas
FDT API initialised: version 3, 0, 0, 10
```

Error message will be displayed when an error occurs. Check the connection cable and select Connect to Device again.

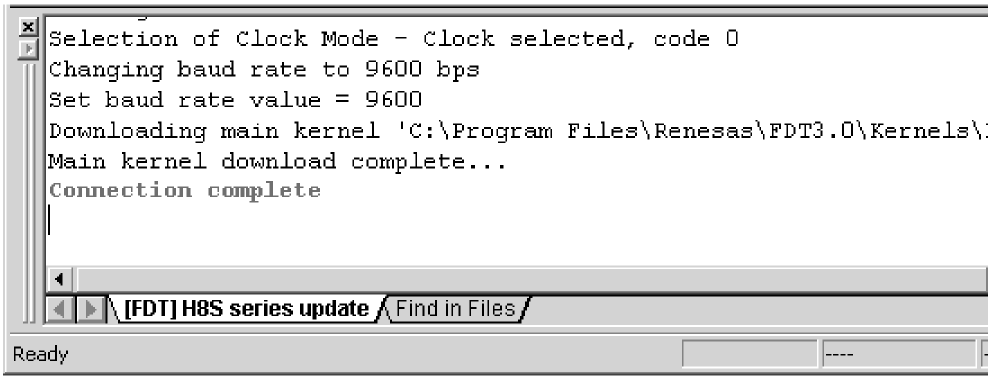
接続に失敗すると下記のようなメッセージが出ます。ケーブル、接続を確認してもう一度**Connect to Device**を行ってください。


[FDT] H8S series update
Find in Files

```
Attempting 9600
Attempting 4800
Attempting 2400
Attempting 1200
Error No 15024: Boot failed
Unloading Comms DLL
```

The following message is displayed that DVD Player connects with PC.

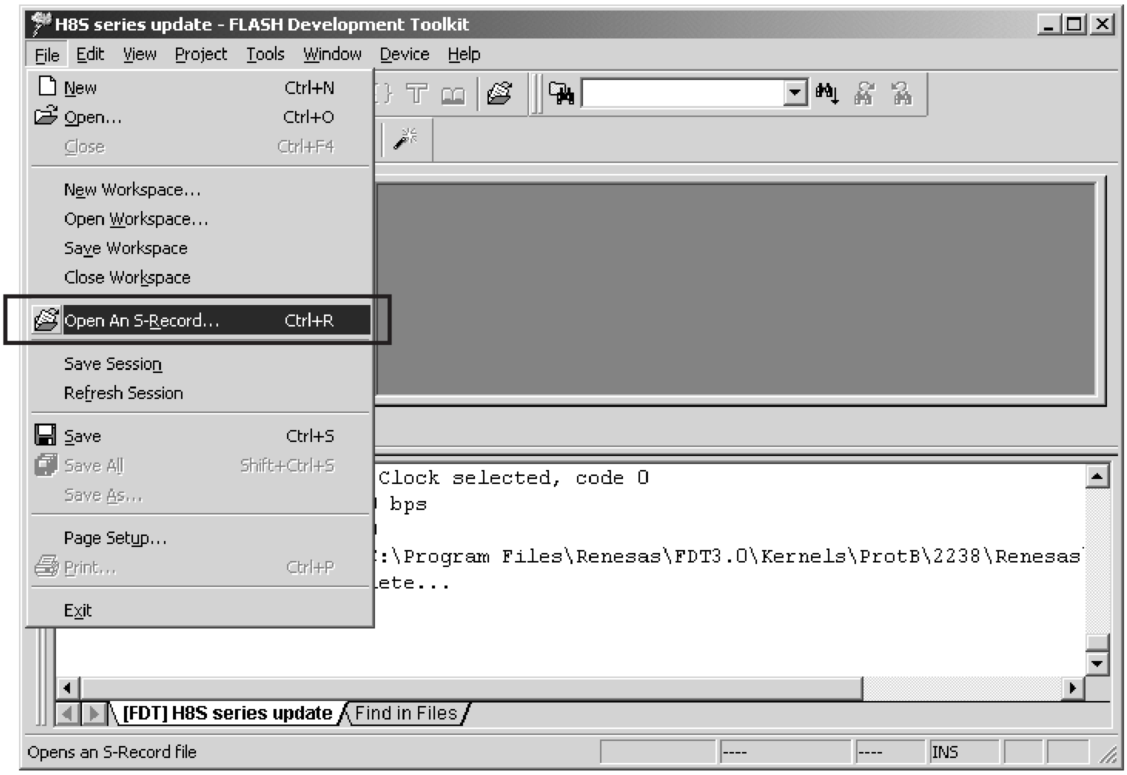
PCとDVD Playerの接続に成功すると下記のようなメッセージが出ます。


[FDT] H8S series update
Find in Files
Ready

```
Selection of Clock Mode - Clock selected, code 0
Changing baud rate to 9600 bps
Set baud rate value = 9600
Downloading main kernel 'C:\Program Files\Renesas\FDT3.0\Kernels\
Main kernel download complete...
Connection complete
```

Click **File** in the menu bar and select **Open An S-Record...**.

File から **Open An S-Record**/を選びクリックします。


H8S series update - FLASH Development Toolkit
File
Edit
View
Project
Tools
Window
Device
Help
New Ctrl+N
Open... Ctrl+O
Close Ctrl+F4
New Workspace...
Open Workspace...
Save Workspace
Close Workspace
Open An S-Record... Ctrl+R
Save Session
Refresh Session
Save Ctrl+S
Save All Shift+Ctrl+S
Save As...
Page Setup...
Print... Ctrl+P
Exit
[FDT] H8S series update
Find in Files

INS

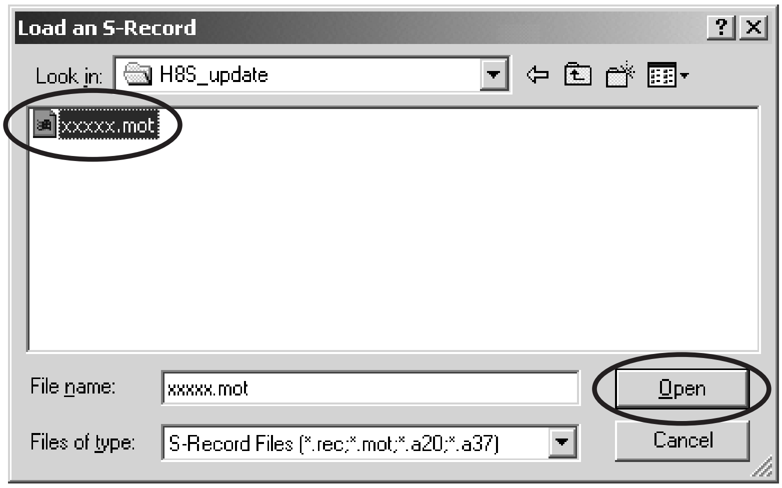
```
Clock selected, code 0
 bps

:\Program Files\Renesas\FDT3.0\Kernels\ProtB\2238\Renesas
ete...
```

Opens an S-Record file

xxxxx.mot is selected. And click **Open**.

update dataのxxxxx.motをクリックして**Open**をクリックします。


Load an S-Record
xxxxx.mot
Open
Cancel

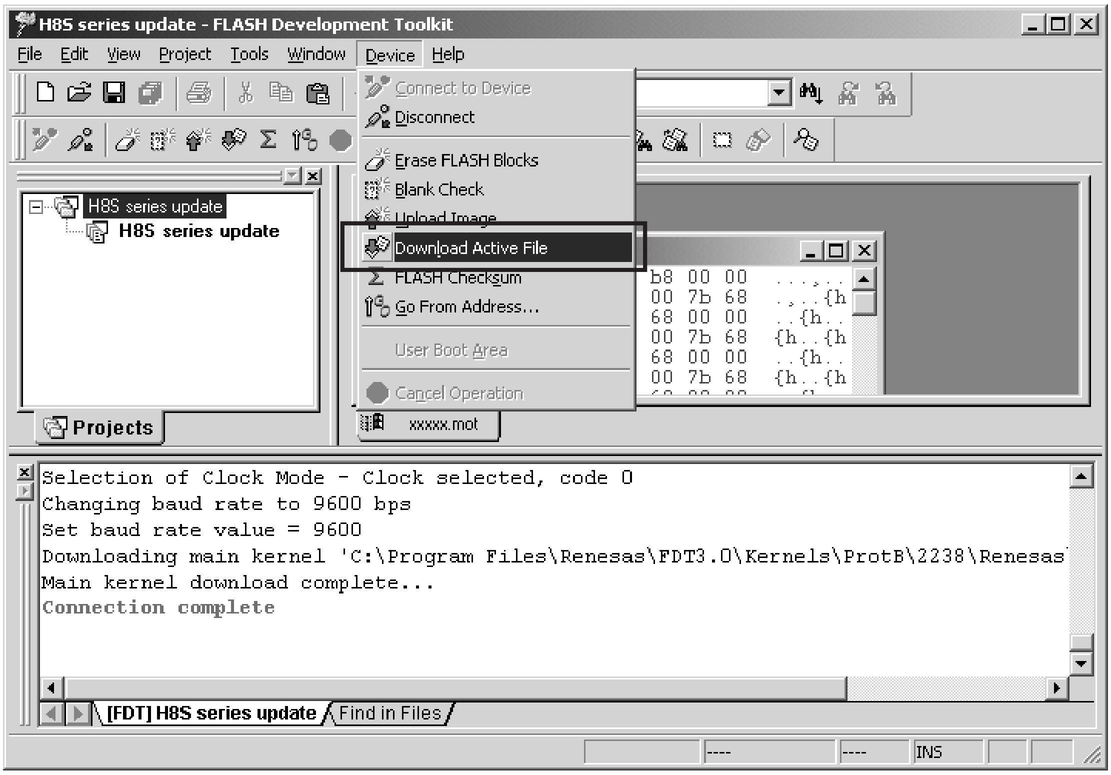
Look in: H8S_update

File name: xxxxx.mot

Files of type: S-Record Files (*.rec;*.mot;*.a20;*.a37)

Click **Device** in the menu bar and select **Download Active File**.

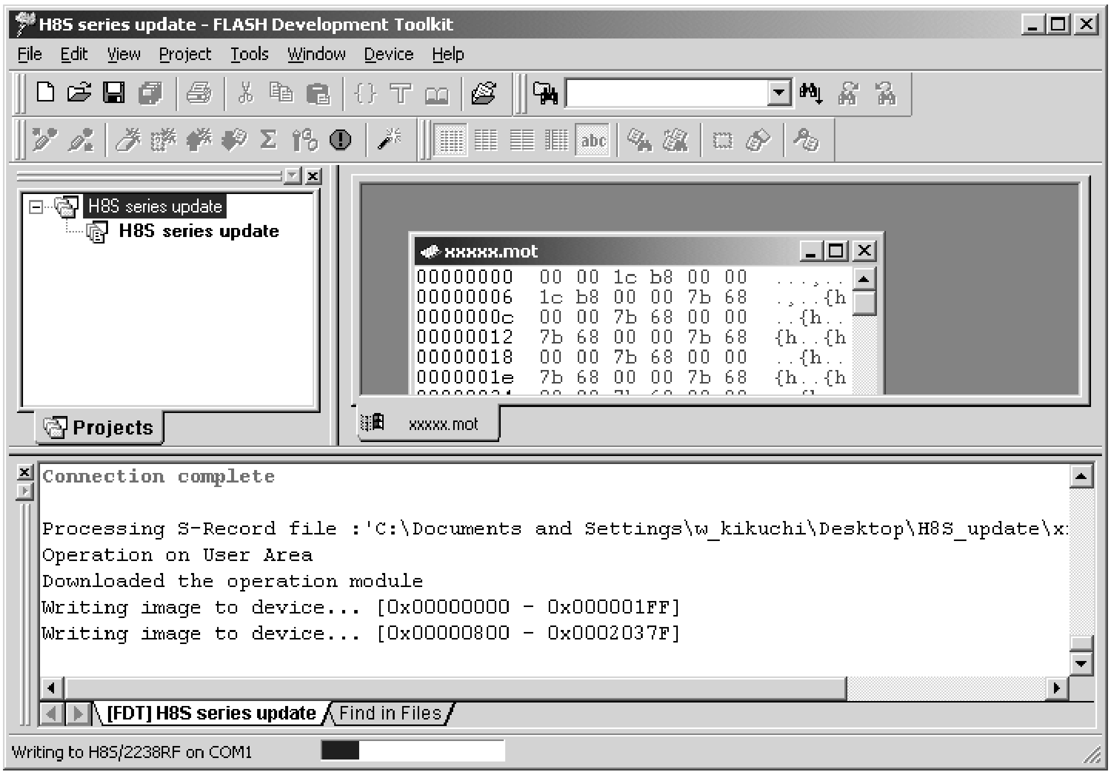
Device から **Download Active File** を選びクリックします。


H8S series update - FLASH Development Toolkit
File
Edit
View
Project
Tools
Window
Device
Help
Connect to Device
Disconnect
Erase FLASH Blocks
Blank Check
Upload Image
Download Active File
FLASH Checksum
Go From Address...
User Boot Area
Cancel Operation
H8S series update
H8S series update
Projects
xxxxx.mot
[FDT] H8S series update
Find in Files
INS

```
Selection of Clock Mode - Clock selected, code 0
Changing baud rate to 9600 bps
Set baud rate value = 9600
Downloading main kernel 'C:\Program Files\Renesas\FDT3.0\Kernels\ProtB\2238\Renesas
Main kernel download complete...
Connection complete
```

Software is written into the Panel microprocessor.

書き込みが開始され左下にステータスバーが出ます。


H8S series update - FLASH Development Toolkit
File
Edit
View
Project
Tools
Window
Device
Help
H8S series update
H8S series update
Projects
xxxxx.mot
xxxxx.mot
[FDT] H8S series update
Find in Files

```
00000000  00 00 1c b8 00 00   ....,..
00000006  1c b8 00 00 7b 68   .,..{h
0000000c  00 00 7b 68 00 00   ..{h..
00000012  7b 68 00 00 7b 68   {h..{h
00000018  00 00 7b 68 00 00   ..{h..
0000001e  7b 68 00 00 7b 68   {h..{h
```

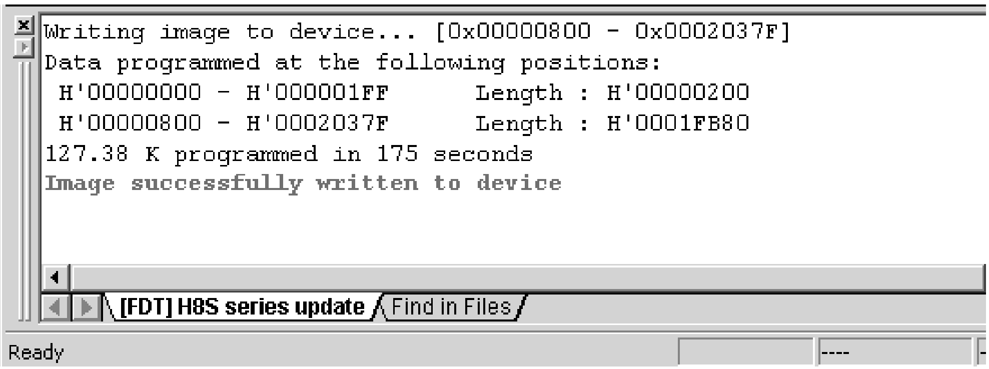
```
Connection complete

Processing S-Record file :'C:\Documents and Settings\w_kikuchi\Desktop\H8S_update\x
Operation on User Area
Downloaded the operation module
Writing image to device... [0x00000000 - 0x000001FF]
Writing image to device... [0x00000800 - 0x0002037F]
```

Writing to H8S/2238RF on COM1

The following message is displayed when the writing of software was completed.

書き込みが完了すると下記のようにメッセージが表示されます。

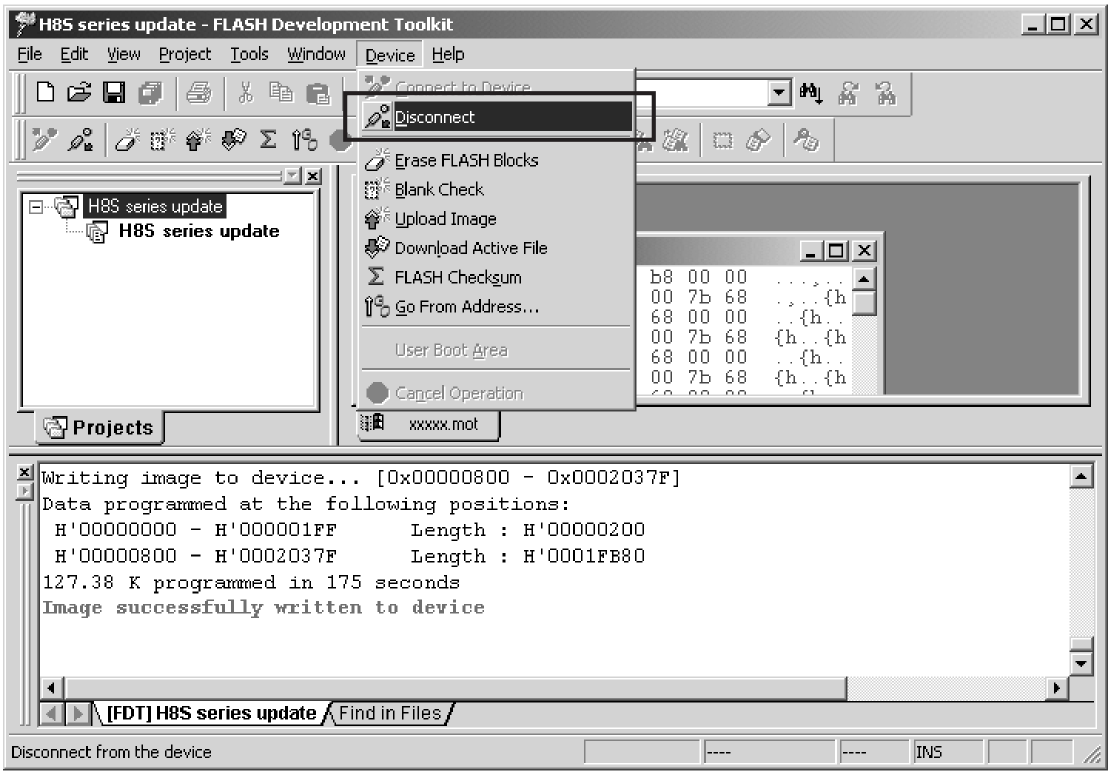


```
Writing image to device... [0x00000800 - 0x0002037F]
Data programmed at the following positions:
 H'00000000 - H'000001FF      Length : H'00000200
 H'00000800 - H'0002037F      Length : H'0001FB80
127.38 K programmed in 175 seconds
Image successfully written to device
```

[FDT] H8S series update
Find in Files
Ready

Click **Device** in the menu bar and select **Disconnect**.

Device から **Disconnect** をクリックします。



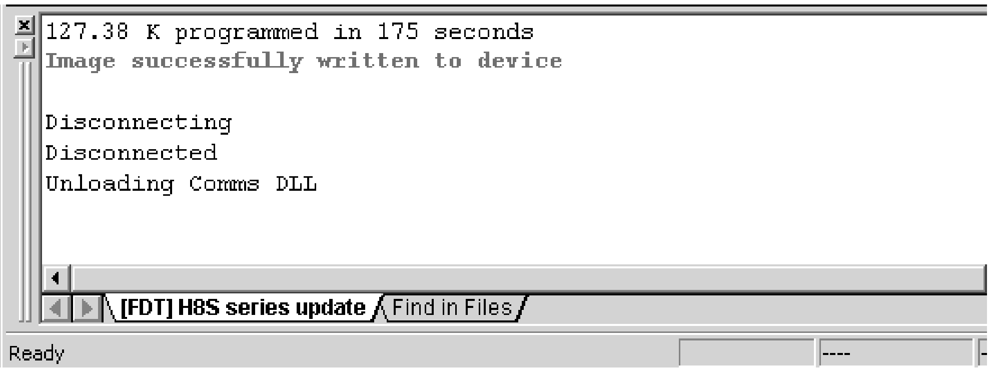
H8S series update - FLASH Development Toolkit
File
Edit
View
Project
Tools
Window
Device
Help
Connect to Device
Disconnect
Erase FLASH Blocks
Blank Check
Upload Image
Download Active File
FLASH Checksum
Go From Address...
User Boot Area
Cancel Operation
H8S series update
H8S series update
Projects
xxxxx.mot
b8 00 00 ...,..
00 7b 68 .,..{h
68 00 00 ..{h..
00 7b 68 {h..{h
68 00 00 ..{h..
00 7b 68 {h..{h
[FDT] H8S series update
Find in Files
Disconnect from the device

INS

```
Writing image to device... [0x00000800 - 0x0002037F]
Data programmed at the following positions:
 H'00000000 - H'000001FF      Length : H'00000200
 H'00000800 - H'0002037F      Length : H'0001FB80
127.38 K programmed in 175 seconds
Image successfully written to device
```

The following message is displayed that DVD Player disconnects with PC.

DVD Playerとの接続が切断されたメッセージが表示されます。



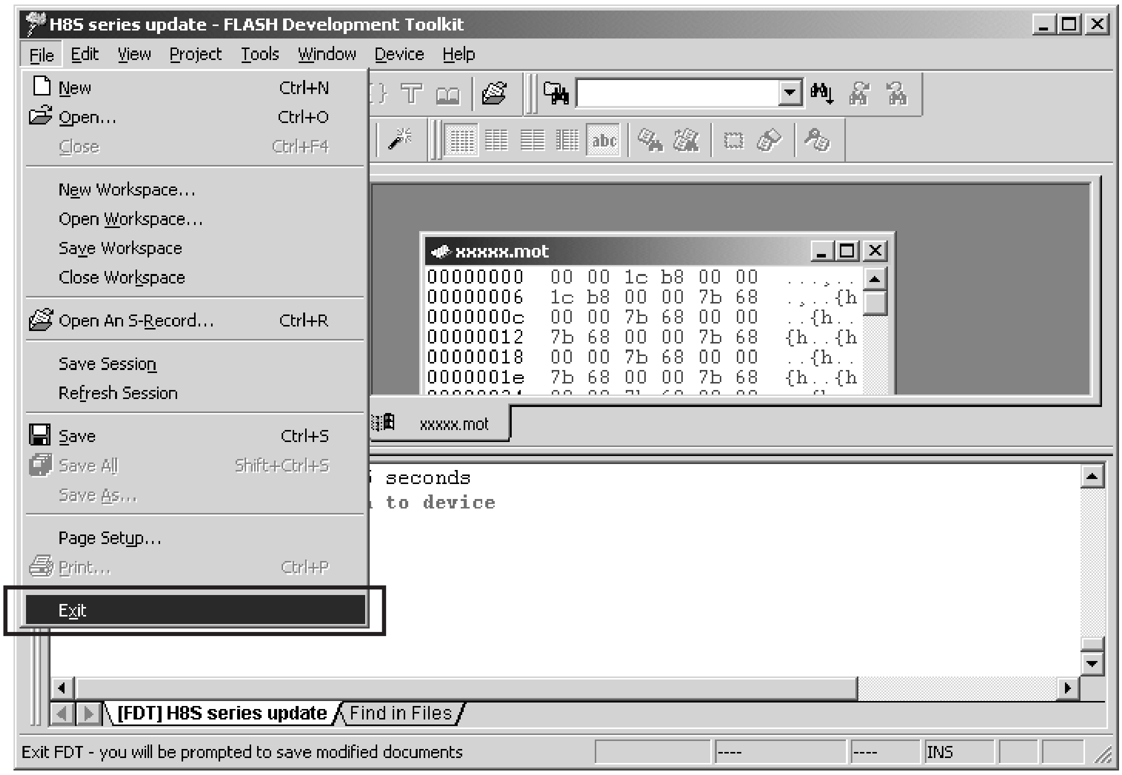
```
127.38 K programmed in 175 seconds
Image successfully written to device

Disconnecting
Disconnected
Unloading Comms DLL
```

[FDT] H8S series update
Find in Files
Ready

Click **File** in the menu bar and select **Exit**.

File から **Exit** をクリックして書き込みソフトウェアを終了します。


H8S series update - FLASH Development Toolkit
File
Edit
View
Project
Tools
Window
Device
Help
New Ctrl+N
Open... Ctrl+O
Close Ctrl+F4
New Workspace...
Open Workspace...
Save Workspace
Close Workspace
Open An S-Record... Ctrl+R
Save Session
Refresh Session
Save Ctrl+S
Save All Shift+Ctrl+S
Save As...
Page Setup...
Print... Ctrl+P
Exit
xxxxx.mot
INS
[FDT] H8S series update
Find in Files

```
00000000  00 00 1c b8 00 00  ....¸..
00000006  1c b8 00 00 7b 68  .¸..{h
0000000c  00 00 7b 68 00 00  ..{h..
00000012  7b 68 00 00 7b 68  {h..{h
00000018  00 00 7b 68 00 00  ..{h..
0000001e  7b 68 00 00 7b 68  {h..{h
```

```
seconds
to device
```

Exit FDT - you will be prompted to save modified documents

Turn off by the POWER switch in the front panel of DVD Player.

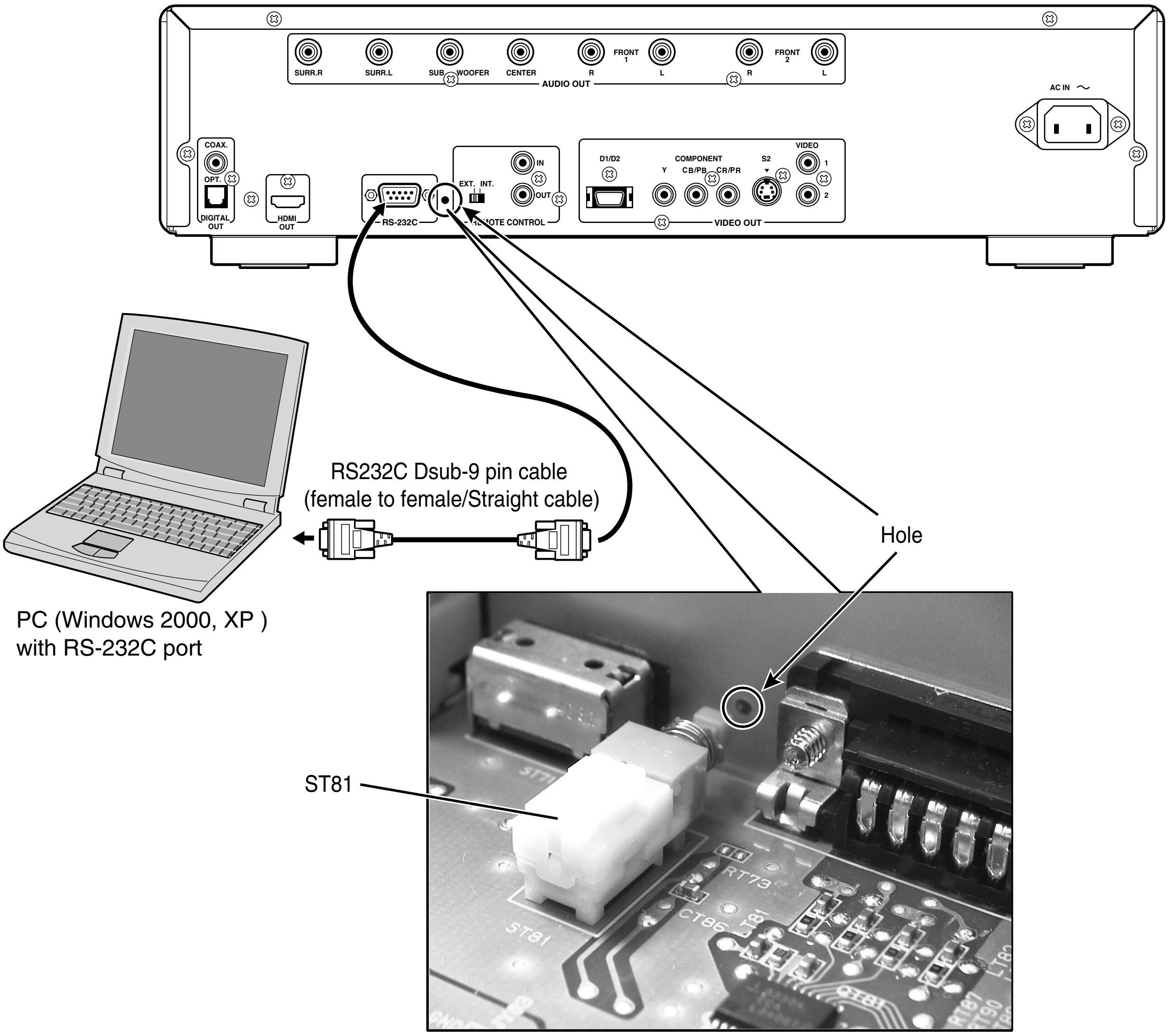
After The DVD Player's STANDBY (red) and DISPLAY OFF (blue) indicators turn off lights, Insert a thin rod to the hole near the RS-232C Port and push the switch inside to turn off the switch.

Disconnect RS-232C cable of the DVD Player and Serial Port of windows PC.

DVD PlayerのFront Panelにある電源スイッチを押して電源を切ります。

STANDBY, DISPLAY OFF のランプが消灯したら RS-232C の右横の穴からスイッチを押し書き込みモードを解除します。

RS-232C のケーブルを外します。

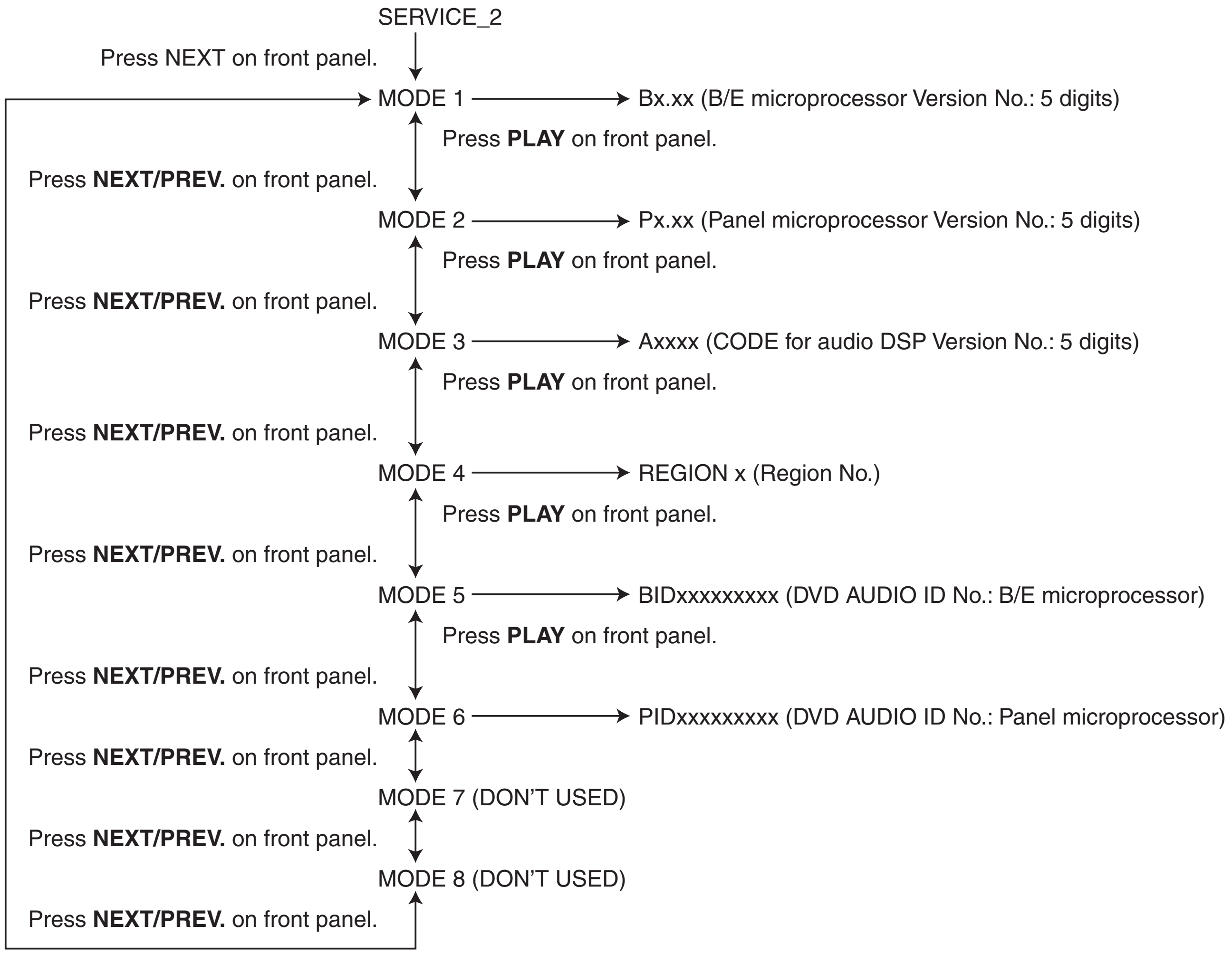

SURR.R
SURR.L
SUB WOOFER
CENTER
FRONT 1
R
L
FRONT 2
R
L
AUDIO OUT
AC IN ～
COAX.
OPT.
DIGITAL OUT
HDMI OUT
RS-232C
EXT. INT.
IN
OUT
REMOTE CONTROL
D1/D2
COMPONENT
Y
CB/PB
CR/PR
S2
VIDEO
1
2
VIDEO OUT
RS232C Dsub-9 pin cable
(female to female/Straight cable)
Hole
PC (Windows 2000, XP)
with RS-232C port
ST81

8. SERVICE MODE

Press the **POWER ON**/**OFF** button while pressing **STOP** and **FL OFF** buttons in front panel of DVD Player.
The front display indicates “**S-MODE_NO.**”.
Press the **1**, **4**, **3** and **PLAY** buttons of the remote controller in order, while indicating “**S-MODE_NO.**”.
The front display indicates “**SERVICE_2**”.

8. SERVICE MODE

DVD Playerのフロントパネルにある**STOP**と**FL OFF**ボタンを押しながら**POWER ON/OFF**ボタンを押します。
フロントディスプレイに**S-MODE_NO.**と表示されます。
この表示が出ている間に(10秒間)リモコンから**1**、**4**、**3**、**PLAY**を押します。
フロントディスプレイに**SERVICE_2**と表示されます。


SERVICE_2
Press NEXT on front panel.
MODE 1
Bx.xx (B/E microprocessor Version No.: 5 digits)
Press **PLAY** on front panel.
Press **NEXT/PREV.** on front panel.
MODE 2
Px.xx (Panel microprocessor Version No.: 5 digits)
Press **PLAY** on front panel.
Press **NEXT/PREV.** on front panel.
MODE 3
Axxxx (CODE for audio DSP Version No.: 5 digits)
Press **PLAY** on front panel.
Press **NEXT/PREV.** on front panel.
MODE 4
REGION x (Region No.)
Press **PLAY** on front panel.
Press **NEXT/PREV.** on front panel.
MODE 5
BIDxxxxxxxxx (DVD AUDIO ID No.: B/E microprocessor)
Press **PLAY** on front panel.
Press **NEXT/PREV.** on front panel.
MODE 6
PIDxxxxxxxxx (DVD AUDIO ID No.: Panel microprocessor)
Press **NEXT/PREV.** on front panel.
MODE 7 (DON’T USED)
Press **NEXT/PREV.** on front panel.
MODE 8 (DON’T USED)
Press **NEXT/PREV.** on front panel.

9. WRITE-IN ID DATA FOR DVD AUDIO PROCEDURE

A case writing is needs

Writing is needed when Q103 (PM01) was replaced.

Necessary Equipment

Windows PC (With Serial Port)
RS-232C Cable straight type (9 Pin female - 9 Pin female)
Writing software (CPPMset.exe)
ID data and ID number

Remark: Only one ID data and ID number are assigned to the serial number of DVD Player., Beforehand, please ask customer center “ID data” and” ID number” corresponding to the serial number of DVD Player.

Writing time

The writing of ID data for DVD AUDIO takes about 2 seconds.

Writing procedure

1. Put the “CPPM” folder into anywhere on your PC’s hard disc.
2. Move ID data suitable for the serial number ordered in advance to the “DeviceKey” folder in a “CPPM” folder.
   Remark: Please set only to one ID data put on a “DeviceKey” folder. If two or more ID data is placed, writing may not be made correctly.
3. Open the “CPPM.ini” in a “CPPM\marantz” folder by text editors, such as Note pad.

9. DVD AUDIO用IDデータの書き込み方法

書き込みが必要なとき

Q103(PM01)を交換したときに書き込みが必要になります。

必要機器

Windows PC （Serial Port 付き）
RC-232Cケーブル (9pinメス−9Pinメス ストレートタイプ)
書き込みソフト (CPPMset.exe)
ID データと ID ナンバー

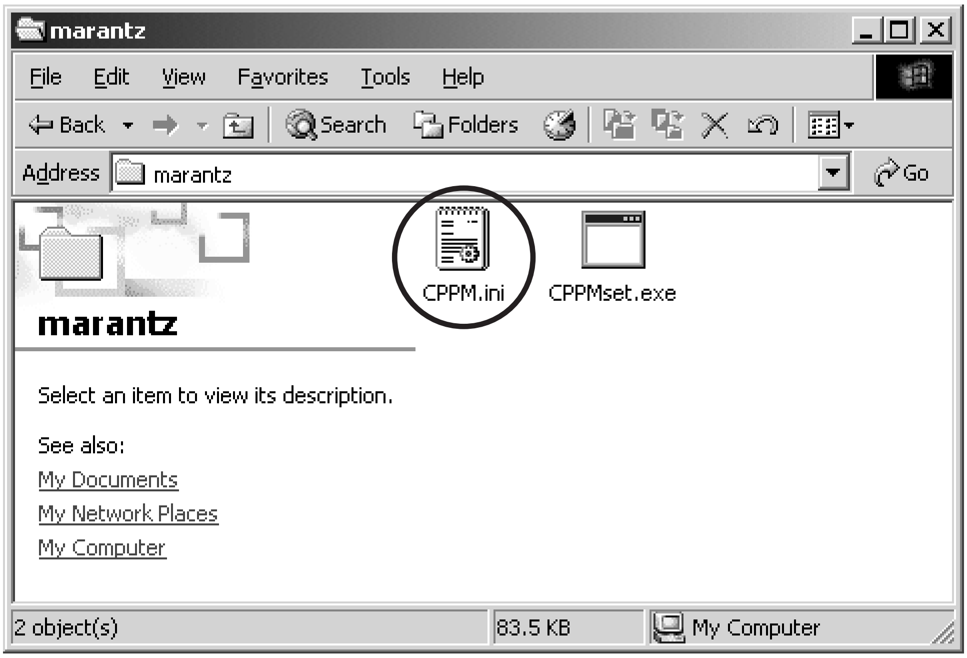
注意) ID データと ID ナンバーは DVD Player のシリアルナンバーに対して 1つ割り当てられています。書き込みを行う際は DVD Player のシリアルナンバーに対応した IDデータとIDナンバーを事前にカスタマーセンターより取り寄せてください。

書き込み時間

このDVD AUDIO用IDデータの書き込み時にかかる時間はおよそ２秒です。

書き込み手順

1. Windows PC の任意のフォルダに CPPM フォルダをコピーします。
2. 事前に取り寄せたシリアルナンバーに合ったIDデータをCPPMフォルダ内のDeviceKeyフォルダに移動します。
   注意： DeviceKey フォルダに置く ID データは 1 つだけにしてください。複数のIDデータを置くと正しく書き込みが出来ない場合があります。
3. CPPM¥marantz フォルダ内にある CPPM.ini を Note pad などのテキストエディタで開きます。



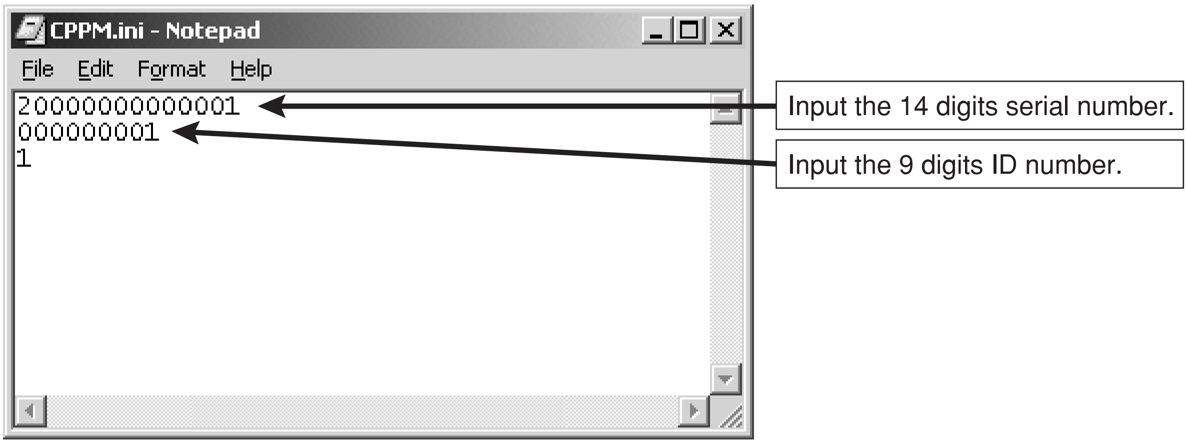
Select an item to view its description.

See also:
My Documents
My Network Places
My Computer

2 object(s) | 83.5 KB | My Computer

4. Type in the serial number of DVD Player to the first line. And type in ID number to the second line.

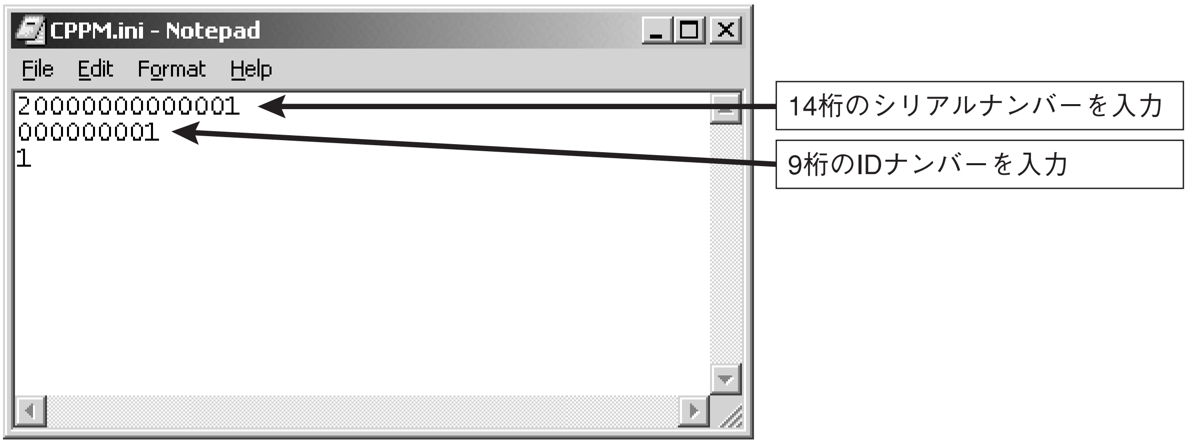
4. 一行目にDVD Playerのシリアルナンバーを入力します。二行目にIDナンバーを入力します。


CPPM.ini - Notepad
File Edit Format Help

```
20000000000001
000000001
1
```

Input the 14 digits serial number.

Input the 9 digits ID number.


CPPM.ini - Notepad
File Edit Format Help

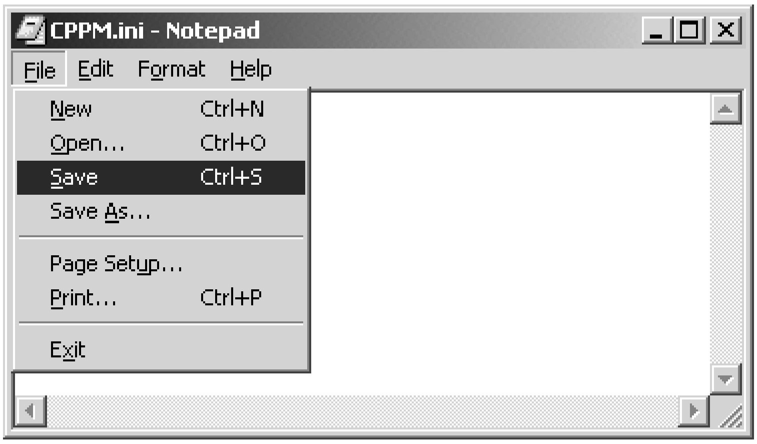
```
20000000000001
000000001
1
```

14桁のシリアルナンバーを入力

9桁のIDナンバーを入力

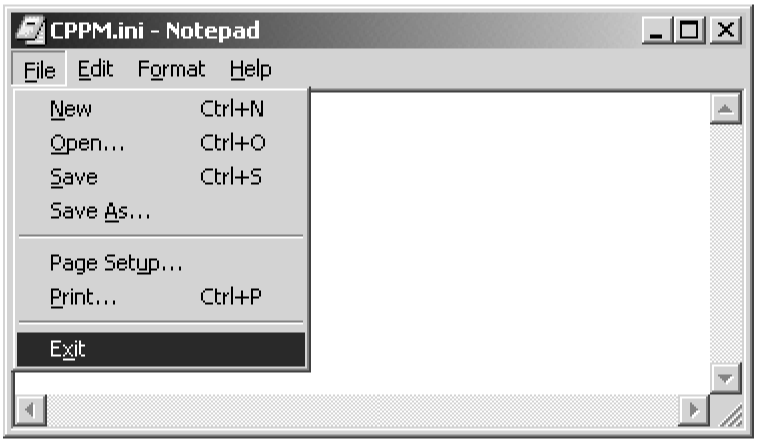
5. Click the “**Save Ctrl+S**” in the File.

5. File から **Save Ctrl+S** をクリックして保存します。


CPPM.ini - Notepad
File Edit Format Help
New Ctrl+N
Open... Ctrl+O
Save Ctrl+S
Save As...
Page Setup...
Print... Ctrl+P
Exit

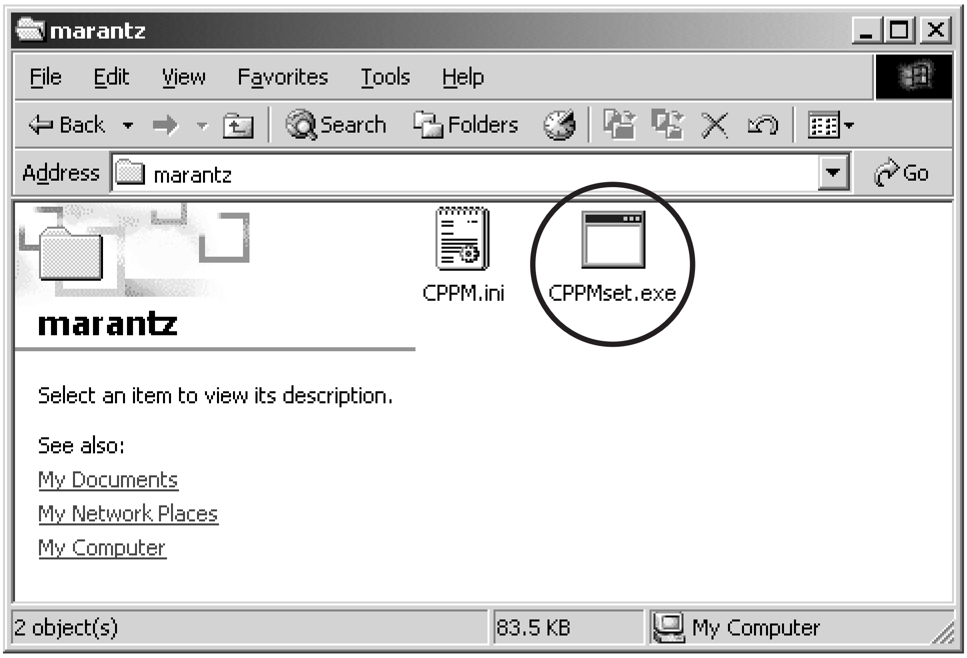
6. Click the “**Exit**” in the File.

6. File から **Exit** をクリックして閉じます。


CPPM.ini - Notepad
File
Edit
Format
Help
New Ctrl+N
Open... Ctrl+O
Save Ctrl+S
Save As...
Page Setup...
Print... Ctrl+P
Exit

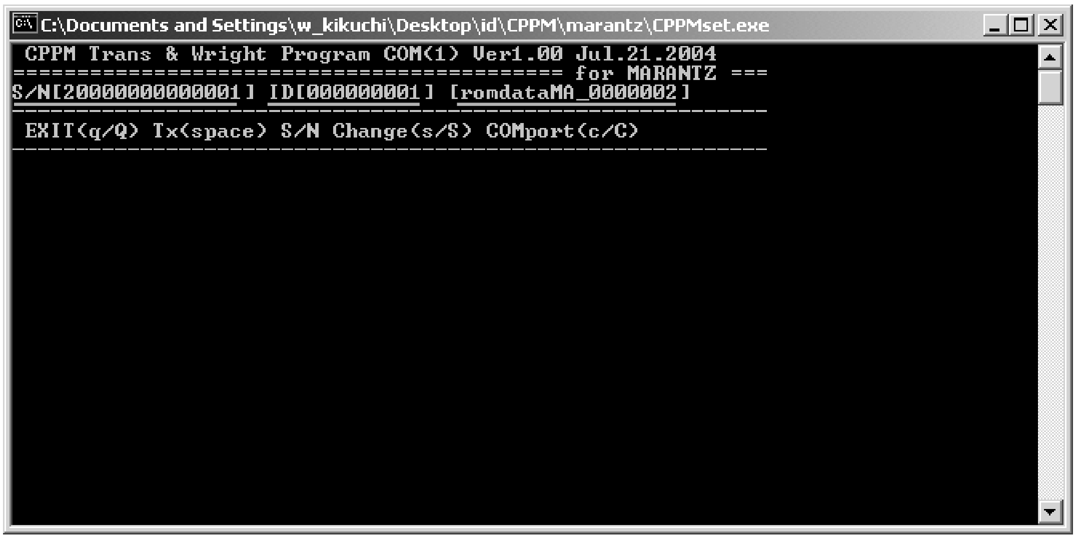
7. Connect RC-232C on the rear panel of DVD Player and Serial Port of windows PC with RS-232C cable.
8. Turn on the power of DVD Player into the writing mode.
    8.1 Press the **POWER ON**/**OFF** button while pressing **STOP** and **FL OFF** buttons in front panel of DVD Player.
    8.2 The front display indicates “S-MODE_NO.”.
    8.3 Press the **1**, **2**, **1** and **PLAY** buttons of the remote controller in order, while indicating “**S-MODE_NO.**”.
    8.4 The front display indicates “**AUDIO_ID**”.
9. Double click the “**CPPMset.exe**” in the CPPM\marantz folder.

7. Windows PC の Serial Port と DVD Player のリアパネルにある RS-232C コネクタを RS-232C ケーブルで接続します。
8. DVD Player を CPPM 書き込みモードにします。
    8.1 DVD Player のフロントパネルにある **STOP** と **FL OFF**ボタンを押しながら**POWER ON/OFF**を押します。
    8.2 フロントディスプレイに **S-MODE_NO.** と表示されます。
    8.3 この表示が出ている間に(10 秒間)リモコンから **1**、**2**、**1**、**PLAY** を押します。
    8.4 フロントディスプレイに **AUDIO_ID** と表示されます。
9. CPPM¥marantzフォルダ内の**CPPMset.exe**をダブルクリックします。


marantz
File
Edit
View
Favorites
Tools
Help
Back
Search
Folders
Address
marantz
Go
marantz
Select an item to view its description.
See also:
My Documents
My Network Places
My Computer
CPPM.ini
CPPMset.exe
2 object(s)
83.5 KB
My Computer

10. The picture shown below is displayed. Check the serial number (S/N), ID number (ID), and ID data are right.

10. ID書き込みソフトが立ち上がります。シリアルナンバー（S/N）、IDナンバー（ID）とIDデータが正しいか確認してください。

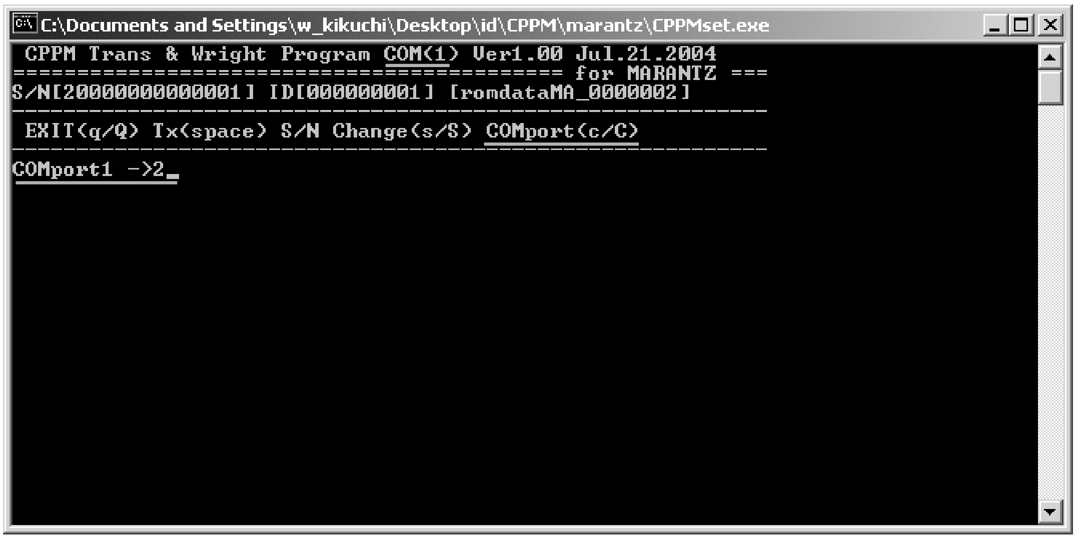


C:\Documents and Settings\w_kikuchi\Desktop\id\CPPM\marantz\CPPMset.exe

```
 CPPM Trans & Wright Program COM(1) Ver1.00 Jul.21.2004
=========================================== for MARANTZ ===
S/N[20000000000001] ID[000000001] [romdataMA_0000002]
-----------------------------------------------------------
 EXIT(q/Q) Tx(space) S/N Change(s/S) COMport(c/C)
-----------------------------------------------------------
```

11. Check the Serial Port number. When serial port numbers differ, Press the **C** key of a keyboard, input the right serial port number, and press the **Enter** key and changed.

11. Serial Portの確認をします。接続したSerial Port Numberと違う場合はキーボードの**C**を押し、接続したSerial Port Numberを入力してキーボードの**Enter**を押して変更します。

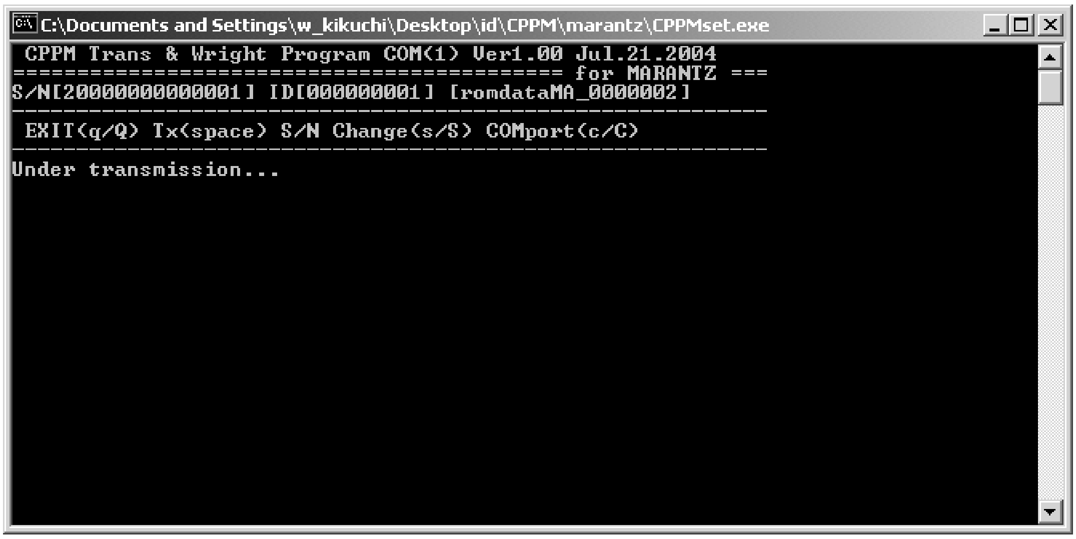


C:\Documents and Settings\w_kikuchi\Desktop\id\CPPM\marantz\CPPMset.exe

```
 CPPM Trans & Wright Program COM(1) Ver1.00 Jul.21.2004
=========================================== for MARANTZ ===
S/N[20000000000001] ID[000000001] [romdataMA_0000002]
-----------------------------------------------------------
 EXIT(q/Q) Tx(space) S/N Change(s/S) COMport(c/C)
-----------------------------------------------------------
COMport1 ->2_
```

12. Press the **space** key of a keyboard and write ID data into the DVD Player.
13. Display "**Under transmission...**". And terminates the software automatically, when writing was completed. The writing of ID data for DVD AUDIO takes about 2 seconds.

12. キーボードの**スペース**キーを押して、ID データを DVD Player 書き込みます。
13. **Under transmission...** と表示され、書き込みが完了するとソフトウェアは自動的に閉じます。転送にかかる時間はおよそ２秒です。


C:\Documents and Settings\w_kikuchi\Desktop\id\CPPM\marantz\CPPMset.exe

```
 CPPM Trans & Wright Program COM(1) Ver1.00 Jul.21.2004
============================================ for MARANTZ ===
S/N[20000000000001] ID[000000001] [romdataMA_0000002]
------------------------------------------------------------
 EXIT(q/Q) Tx(space) S/N Change(s/S) COMport(c/C)
------------------------------------------------------------
Under transmission...
```

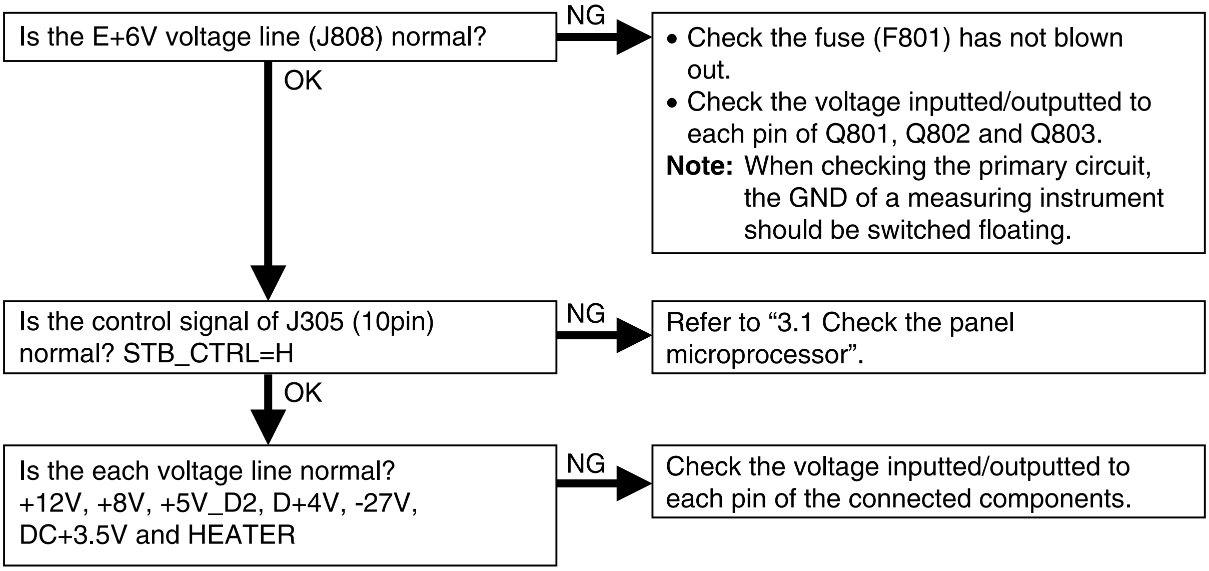
14. Please check written-in ID data by MODE5 and MODE6 of SERVICE MODE.

14. 書き込まれたIDデータの確認はSERVICE MODEの手順に従いMODE5、MODE6 にて確認してください。

10. TROUBLESHOOTING

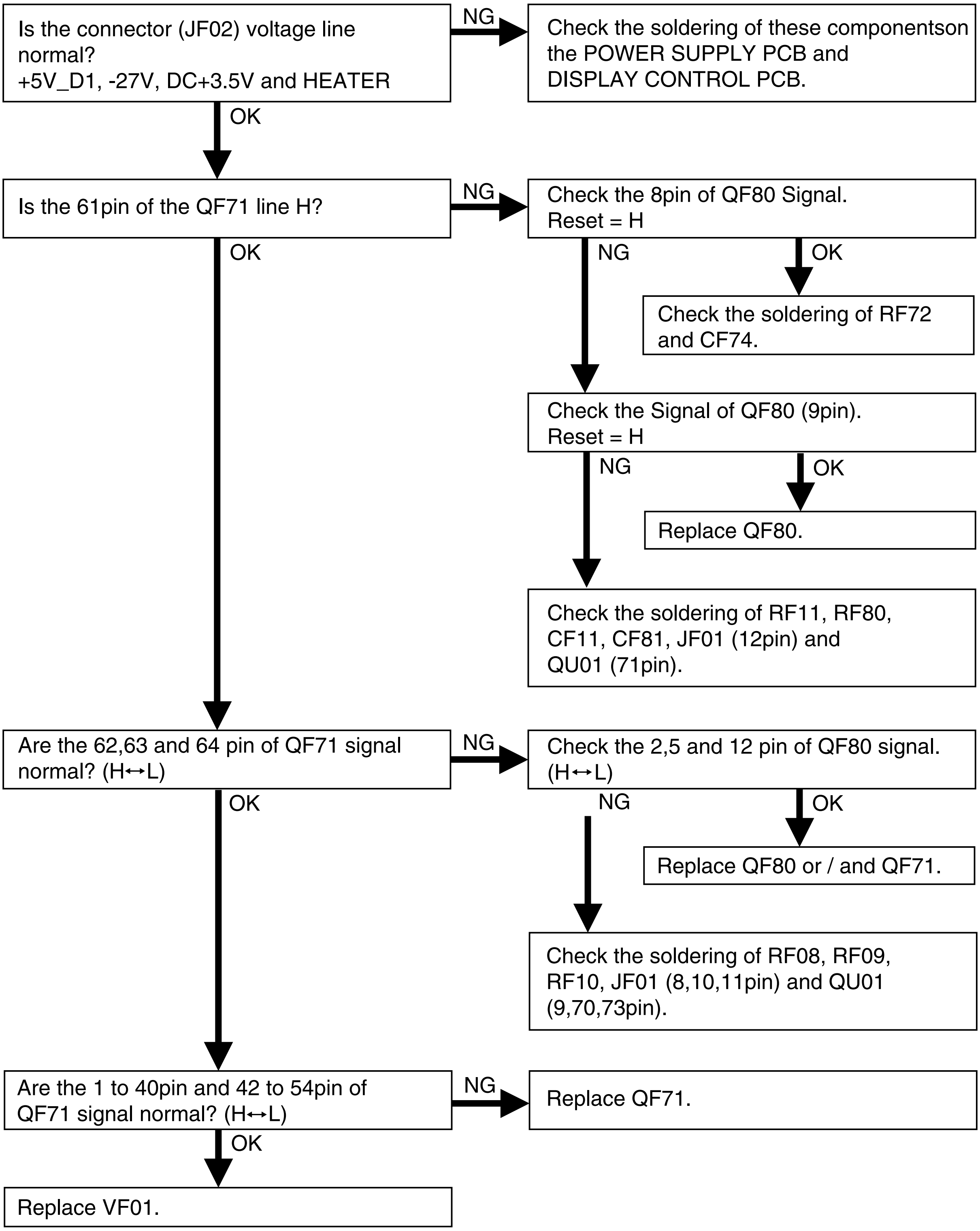
1. Power Supply PCB (P801)

1.1 The power cannot be turned on.

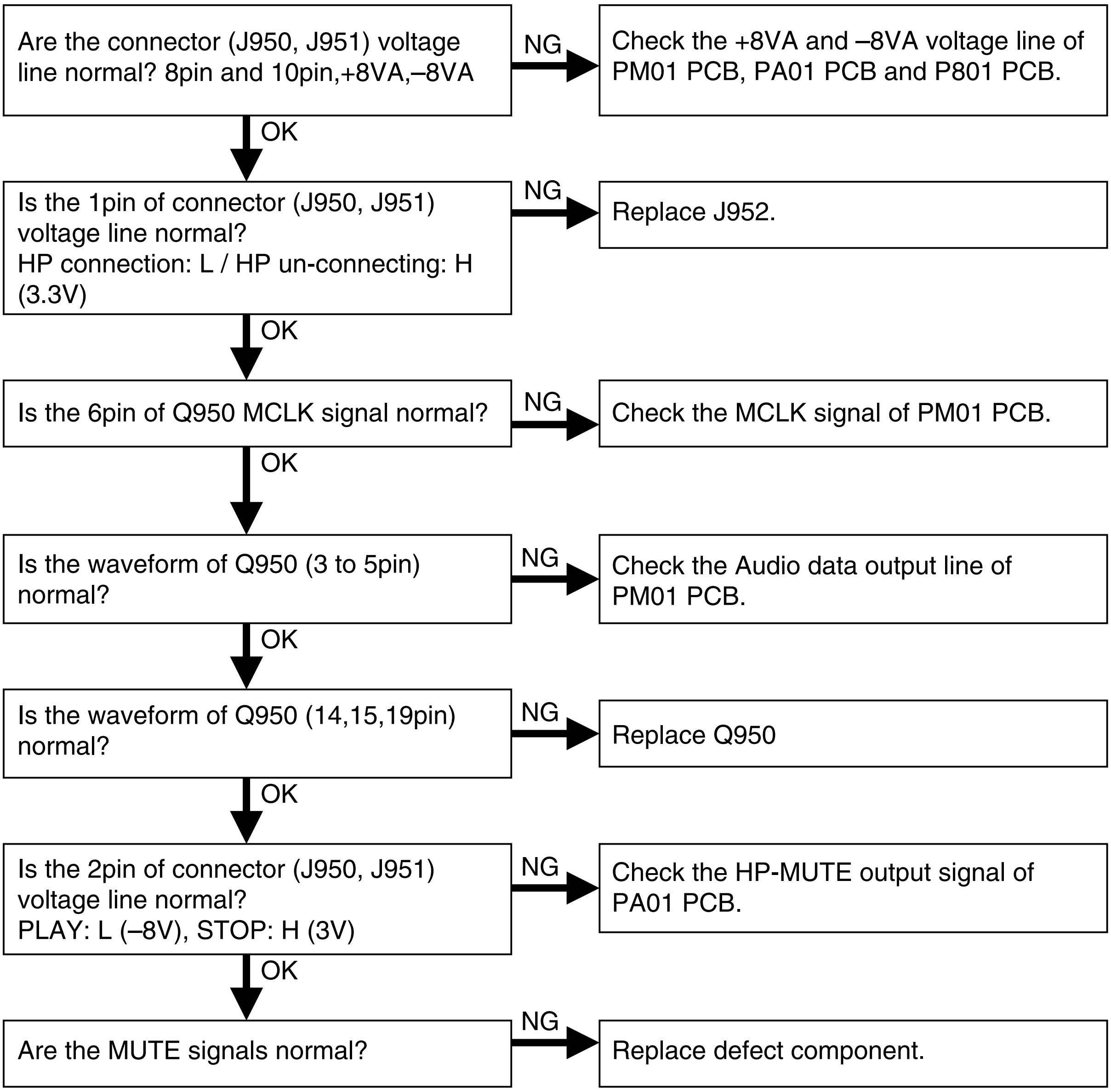

Is the E+6V voltage line (J808) normal?
NG
• Check the fuse (F801) has not blown out.
• Check the voltage inputted/outputted to each pin of Q801, Q802 and Q803.
Note: When checking the primary circuit, the GND of a measuring instrument should be switched floating.
OK
Is the control signal of J305 (10pin) normal? STB_CTRL=H
NG
Refer to "3.1 Check the panel microprocessor".
OK
Is the each voltage line normal? +12V, +8V, +5V_D2, D+4V, -27V, DC+3.5V and HEATER
NG
Check the voltage inputted/outputted to each pin of the connected components.

2. DISPLAY CONTROL / PHONE PCB

2.1 FL is not outputted.


Is the connector (JF02) voltage line normal?
+5V_D1, -27V, DC+3.5V and HEATER
NG
Check the soldering of these componentson the POWER SUPPLY PCB and DISPLAY CONTROL PCB.
OK
Is the 61pin of the QF71 line H?
NG
Check the 8pin of QF80 Signal.
Reset = H
OK
NG
OK
Check the soldering of RF72 and CF74.
Check the Signal of QF80 (9pin).
Reset = H
NG
OK
Replace QF80.
Check the soldering of RF11, RF80, CF11, CF81, JF01 (12pin) and QU01 (71pin).
Are the 62,63 and 64 pin of QF71 signal normal? (H↔L)
NG
Check the 2,5 and 12 pin of QF80 signal. (H↔L)
OK
NG
OK
Replace QF80 or / and QF71.
Check the soldering of RF08, RF09, RF10, JF01 (8,10,11pin) and QU01 (9,70,73pin).
Are the 1 to 40pin and 42 to 54pin of QF71 signal normal? (H↔L)
NG
Replace QF71.
OK
Replace VF01.

2.2 No sound is output from Phones. (The headphones are connected to PHONES jack.)



Are the connector (J950, J951) voltage line normal? 8pin and 10pin,+8VA,–8VA

Check the +8VA and –8VA voltage line of PM01 PCB, PA01 PCB and P801 PCB.

Is the 1pin of connector (J950, J951) voltage line normal?
HP connection: L / HP un-connecting: H (3.3V)

Replace J952.

Is the 6pin of Q950 MCLK signal normal?

Check the MCLK signal of PM01 PCB.

Is the waveform of Q950 (3 to 5pin) normal?

Check the Audio data output line of PM01 PCB.

Is the waveform of Q950 (14,15,19pin) normal?

Replace Q950

Is the 2pin of connector (J950, J951) voltage line normal?
PLAY: L (–8V), STOP: H (3V)

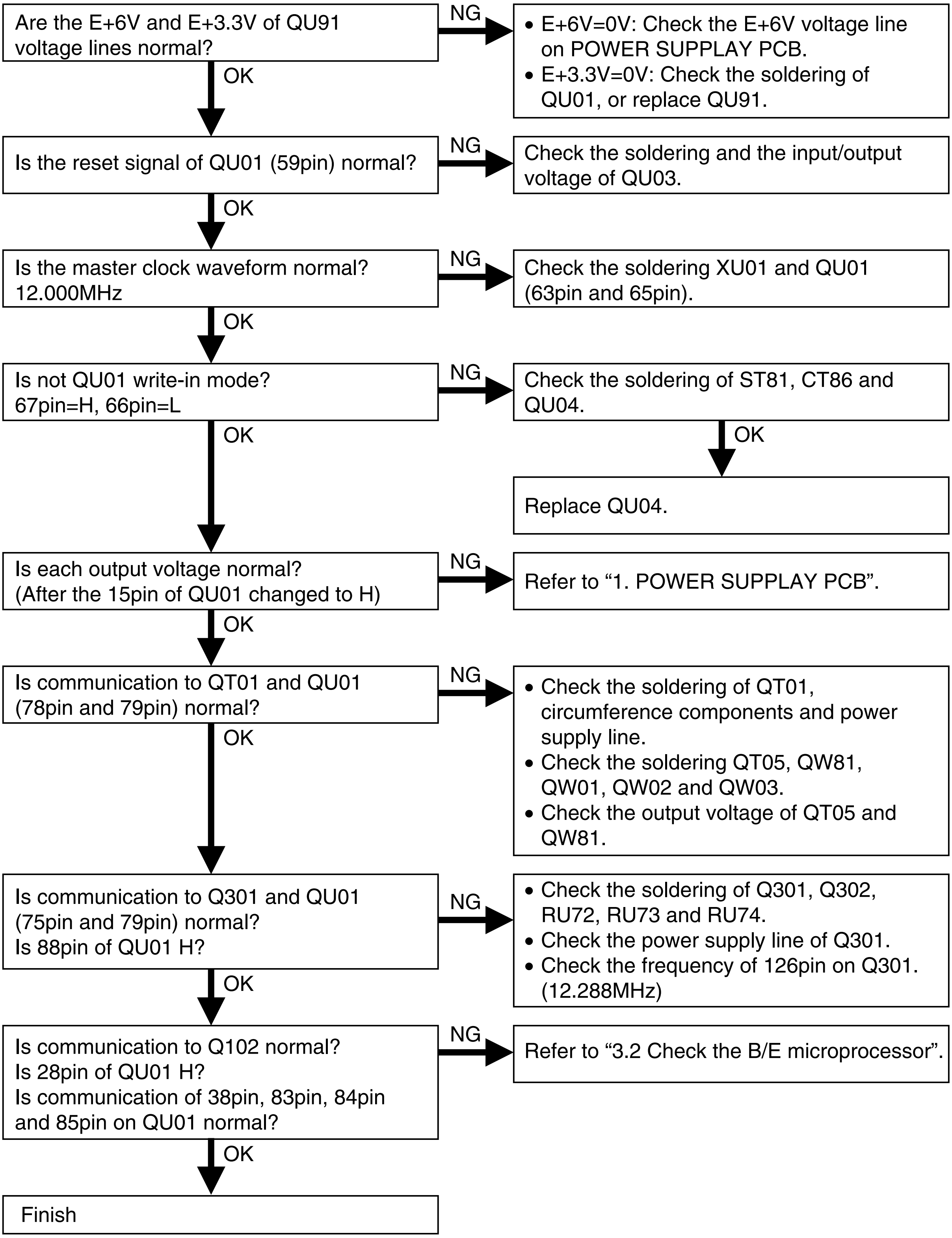
Check the HP-MUTE output signal of PA01 PCB.

Are the MUTE signals normal?

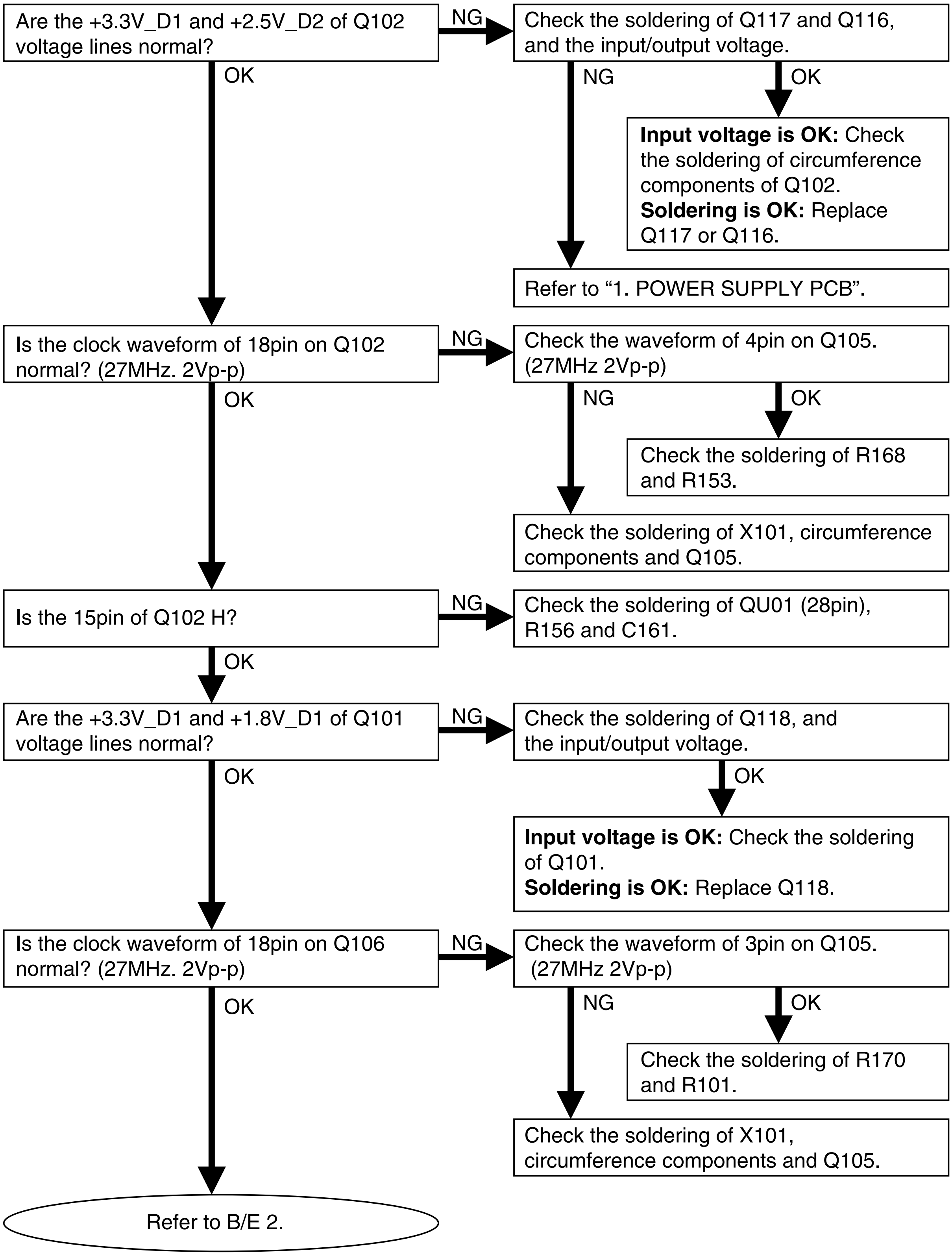
Replace defect component.

3. Main PCB (PM01)

3.1 Check the panel microprocessor


Are the E+6V and E+3.3V of QU91 voltage lines normal?
NG
• E+6V=0V: Check the E+6V voltage line on POWER SUPPLAY PCB.
• E+3.3V=0V: Check the soldering of QU01, or replace QU91.
OK
Is the reset signal of QU01 (59pin) normal?
NG
Check the soldering and the input/output voltage of QU03.
OK
Is the master clock waveform normal? 12.000MHz
NG
Check the soldering XU01 and QU01 (63pin and 65pin).
OK
Is not QU01 write-in mode? 67pin=H, 66pin=L
NG
Check the soldering of ST81, CT86 and QU04.
OK
Replace QU04.
OK
Is each output voltage normal? (After the 15pin of QU01 changed to H)
NG
Refer to “1. POWER SUPPLAY PCB”.
OK
Is communication to QT01 and QU01 (78pin and 79pin) normal?
NG
• Check the soldering of QT01, circumference components and power supply line.
• Check the soldering QT05, QW81, QW01, QW02 and QW03.
• Check the output voltage of QT05 and QW81.
OK
Is communication to Q301 and QU01 (75pin and 79pin) normal? Is 88pin of QU01 H?
NG
• Check the soldering of Q301, Q302, RU72, RU73 and RU74.
• Check the power supply line of Q301.
• Check the frequency of 126pin on Q301. (12.288MHz)
OK
Is communication to Q102 normal? Is 28pin of QU01 H? Is communication of 38pin, 83pin, 84pin and 85pin on QU01 normal?
NG
Refer to “3.2 Check the B/E microprocessor”.
OK
Finish

3.2 Check the B/E microprocessor



Are the +3.3V_D1 and +2.5V_D2 of Q102 voltage lines normal?

Check the soldering of Q117 and Q116, and the input/output voltage.

Input voltage is OK: Check the soldering of circumference components of Q102.
Soldering is OK: Replace Q117 or Q116.

Refer to “1. POWER SUPPLY PCB”.

Is the clock waveform of 18pin on Q102 normal? (27MHz. 2Vp-p)

Check the waveform of 4pin on Q105. (27MHz 2Vp-p)

Check the soldering of R168 and R153.

Check the soldering of X101, circumference components and Q105.

Is the 15pin of Q102 H?

Check the soldering of QU01 (28pin), R156 and C161.

Are the +3.3V_D1 and +1.8V_D1 of Q101 voltage lines normal?

Check the soldering of Q118, and the input/output voltage.

Input voltage is OK: Check the soldering of Q101.
Soldering is OK: Replace Q118.

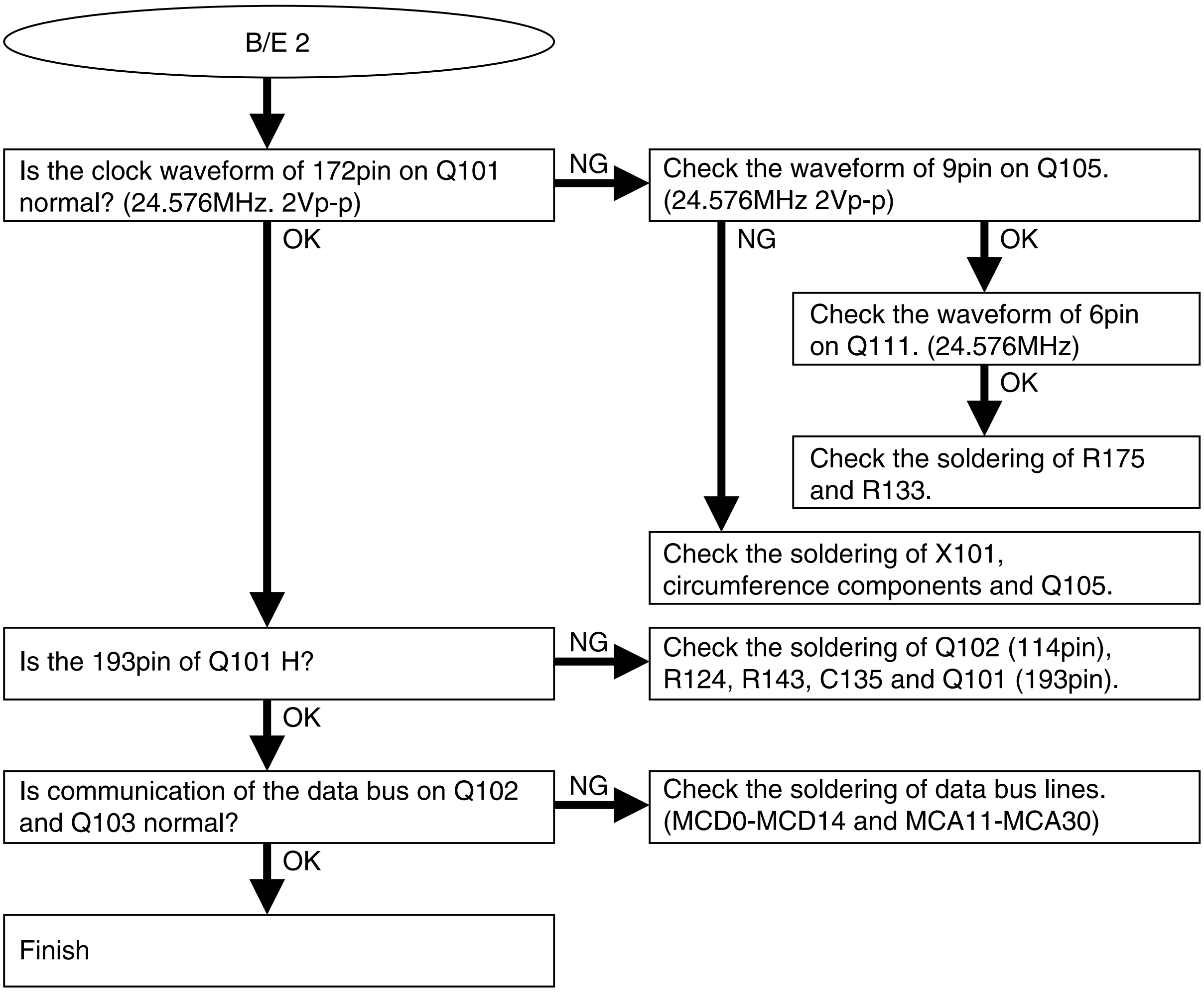
Is the clock waveform of 18pin on Q106 normal? (27MHz. 2Vp-p)

Check the waveform of 3pin on Q105. (27MHz 2Vp-p)

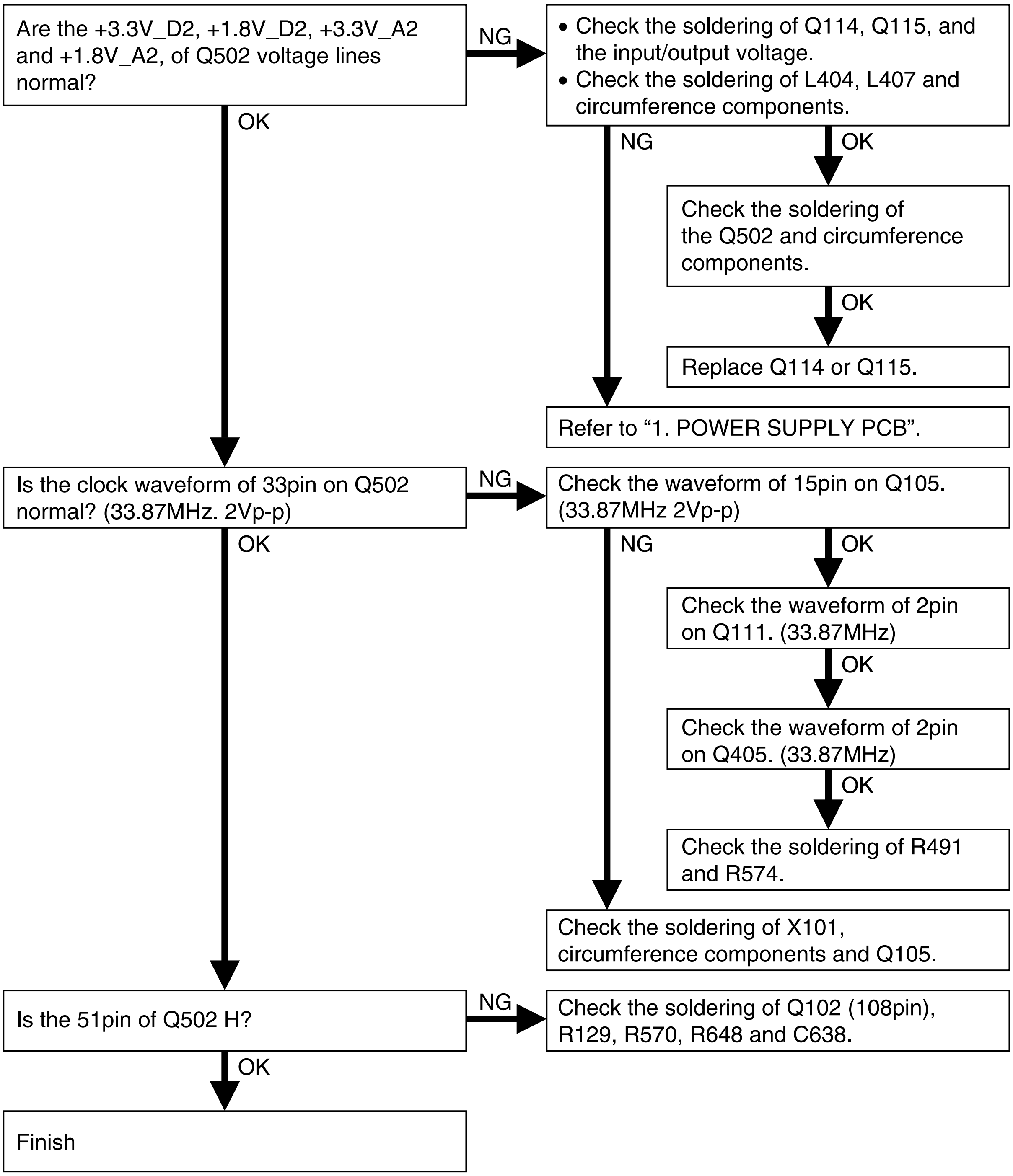
Check the soldering of R170 and R101.

Check the soldering of X101, circumference components and Q105.

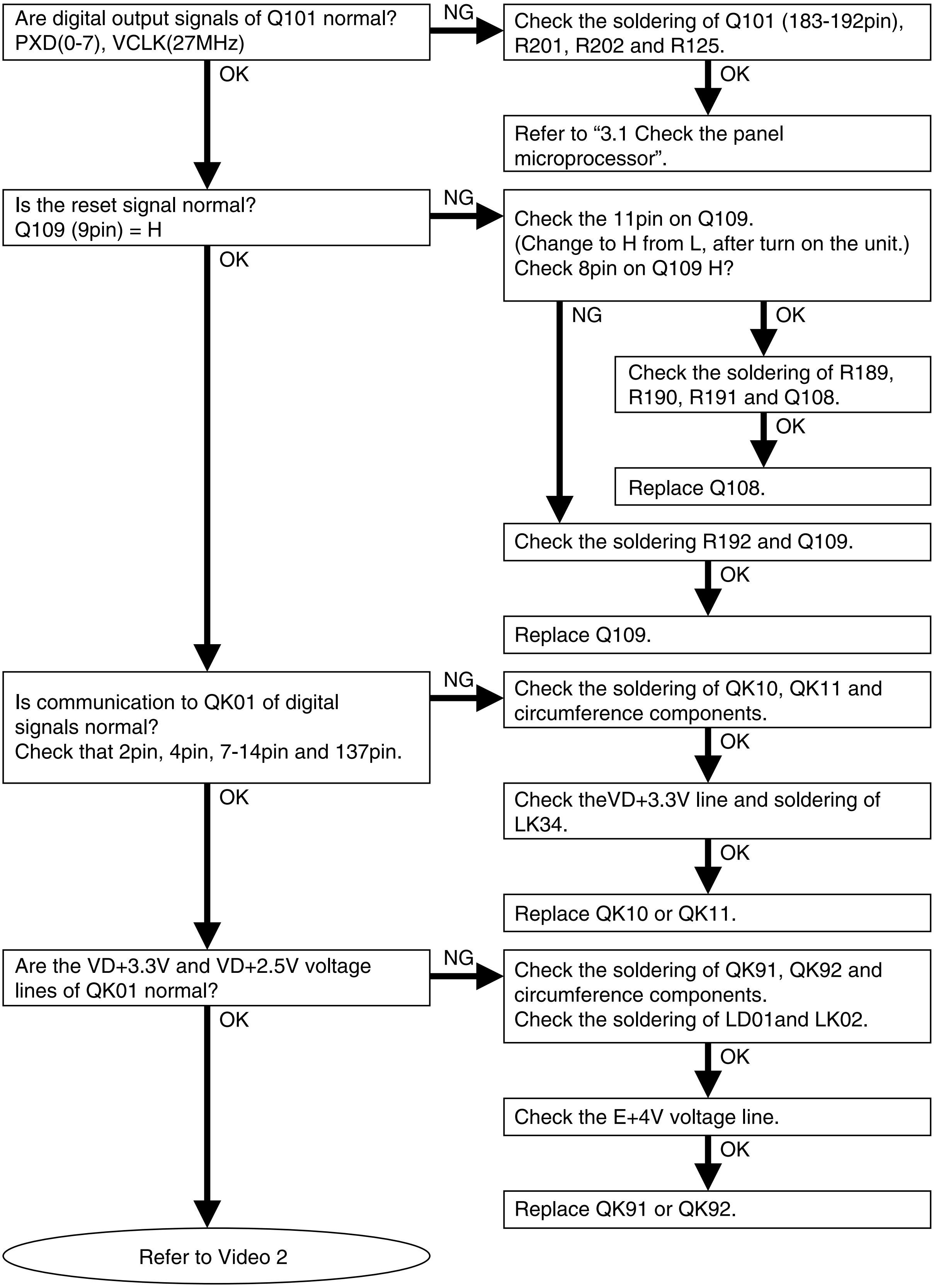
Refer to B/E 2.

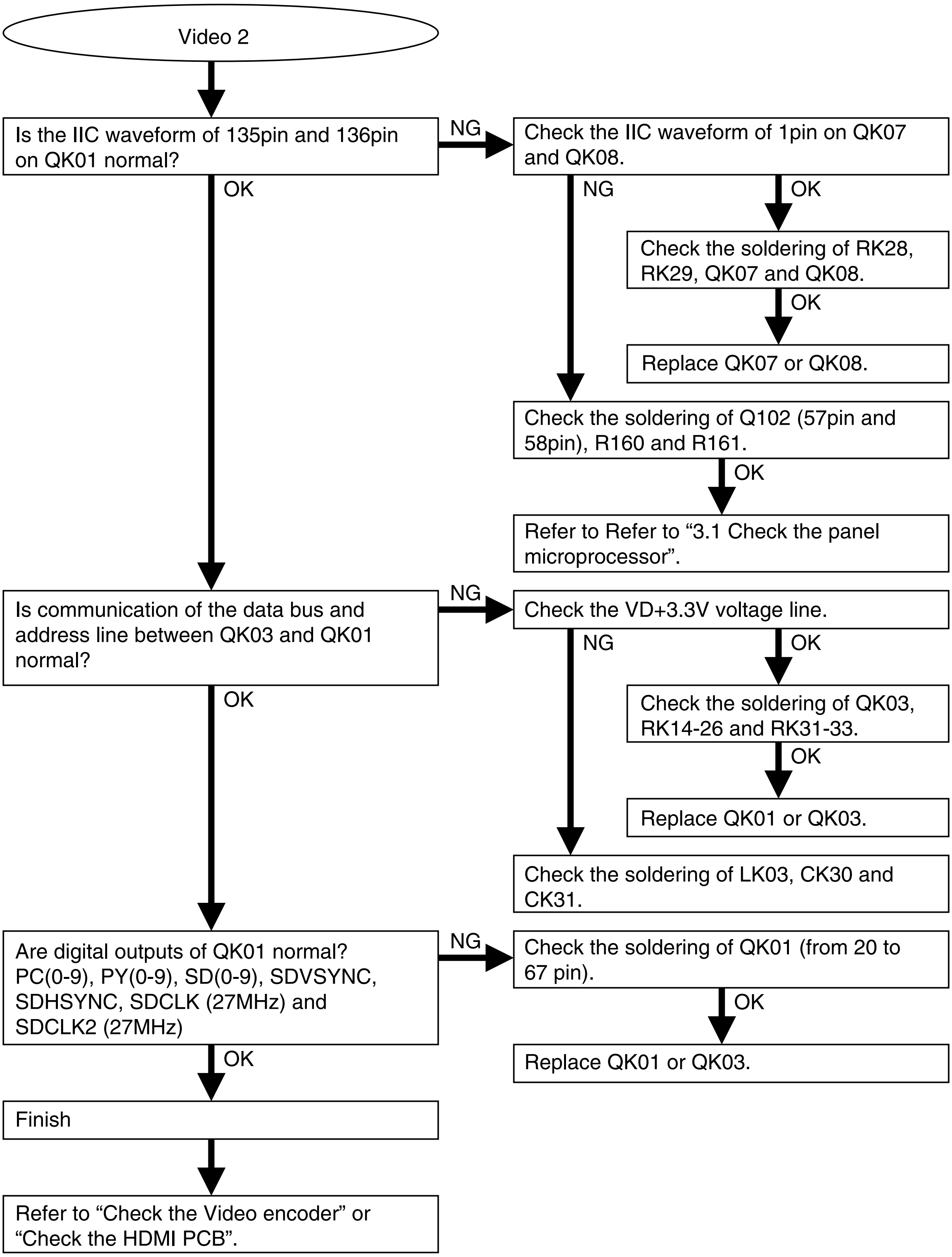

B/E 2
Is the clock waveform of 172pin on Q101 normal? (24.576MHz. 2Vp-p)
NG
Check the waveform of 9pin on Q105. (24.576MHz 2Vp-p)
OK
NG
OK
Check the waveform of 6pin on Q111. (24.576MHz)
OK
Check the soldering of R175 and R133.
Check the soldering of X101, circumference components and Q105.
Is the 193pin of Q101 H?
NG
Check the soldering of Q102 (114pin), R124, R143, C135 and Q101 (193pin).
OK
Is communication of the data bus on Q102 and Q103 normal?
NG
Check the soldering of data bus lines. (MCD0-MCD14 and MCA11-MCA30)
OK
Finish

3.3 Check the F/E microprocessor.

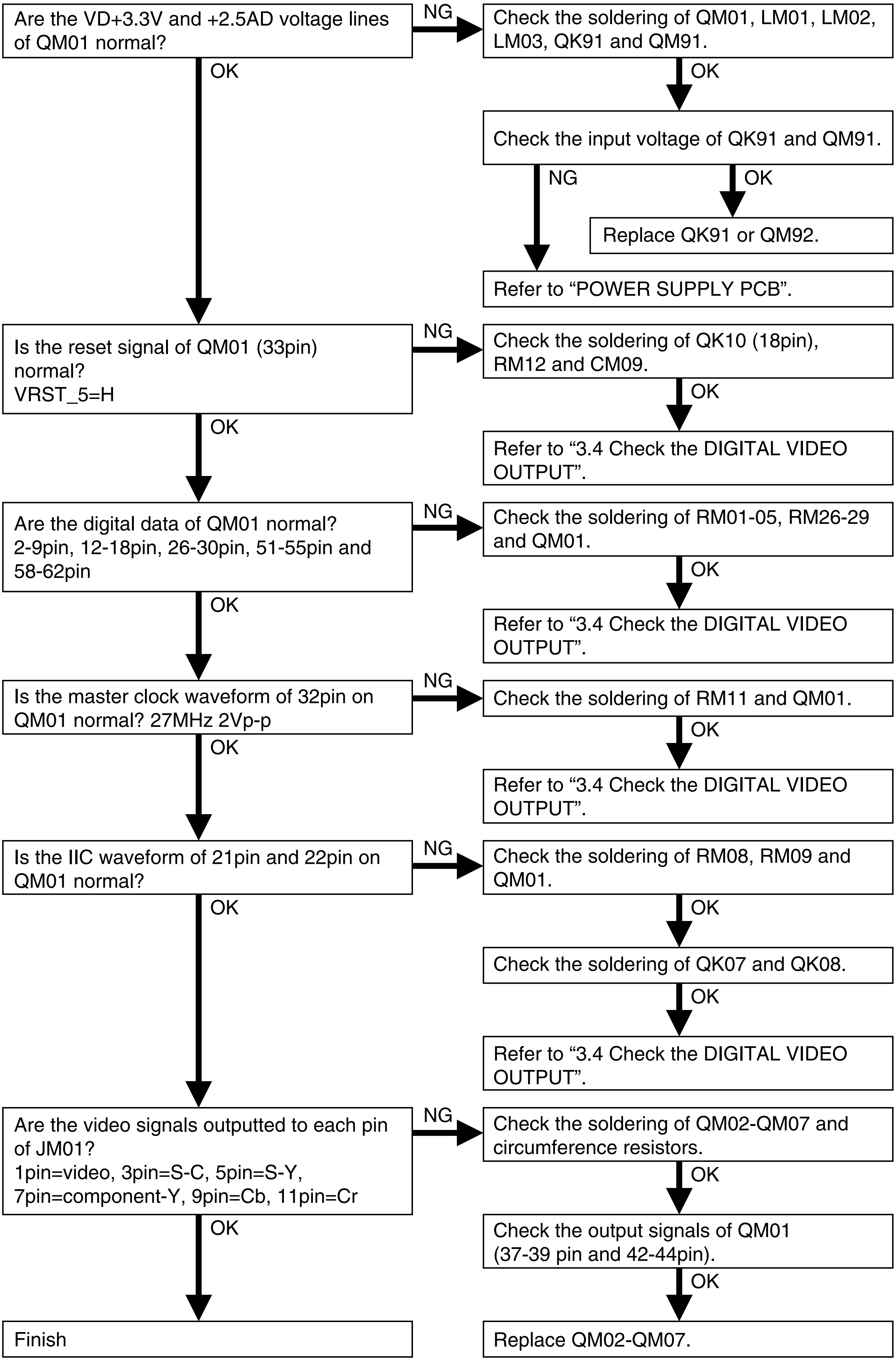

Are the +3.3V_D2, +1.8V_D2, +3.3V_A2 and +1.8V_A2, of Q502 voltage lines normal?
NG
• Check the soldering of Q114, Q115, and the input/output voltage.
• Check the soldering of L404, L407 and circumference components.
NG
OK
Check the soldering of the Q502 and circumference components.
OK
Replace Q114 or Q115.
Refer to “1. POWER SUPPLY PCB”.
OK
Is the clock waveform of 33pin on Q502 normal? (33.87MHz. 2Vp-p)
NG
Check the waveform of 15pin on Q105. (33.87MHz 2Vp-p)
NG
OK
Check the waveform of 2pin on Q111. (33.87MHz)
OK
Check the waveform of 2pin on Q405. (33.87MHz)
OK
Check the soldering of R491 and R574.
Check the soldering of X101, circumference components and Q105.
OK
Is the 51pin of Q502 H?
NG
Check the soldering of Q102 (108pin), R129, R570, R648 and C638.
OK
Finish

3.4 Check the DIGITAL VEDEO OUTPUT.

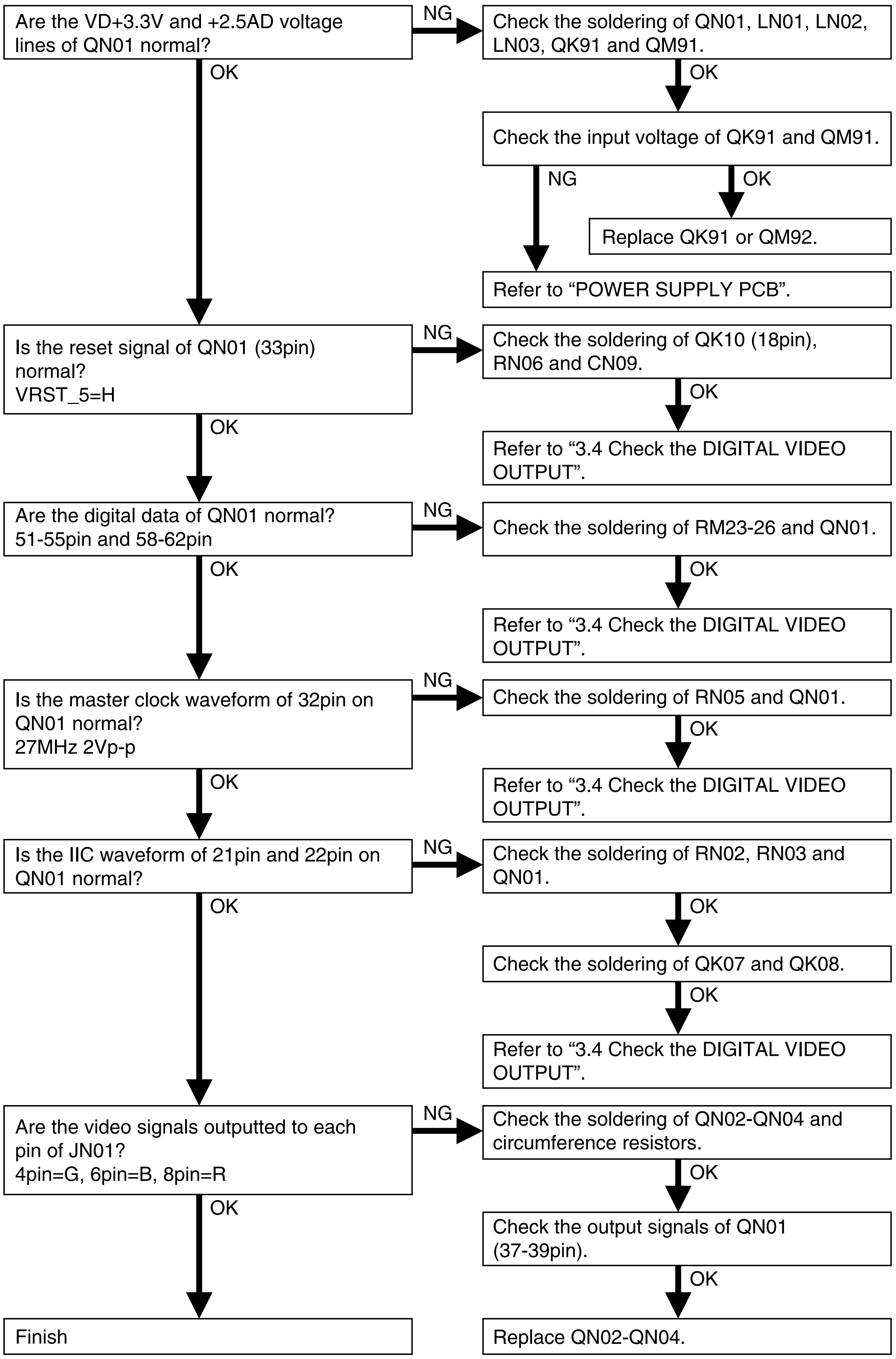

Are digital output signals of Q101 normal?
PXD(0-7), VCLK(27MHz)
NG
Check the soldering of Q101 (183-192pin), R201, R202 and R125.
OK
Refer to “3.1 Check the panel microprocessor”.
OK
Is the reset signal normal?
Q109 (9pin) = H
NG
Check the 11pin on Q109.
(Change to H from L, after turn on the unit.)
Check 8pin on Q109 H?
NG
OK
Check the soldering of R189, R190, R191 and Q108.
OK
Replace Q108.
Check the soldering R192 and Q109.
OK
Replace Q109.
OK
Is communication to QK01 of digital signals normal?
Check that 2pin, 4pin, 7-14pin and 137pin.
NG
Check the soldering of QK10, QK11 and circumference components.
OK
Check theVD+3.3V line and soldering of LK34.
OK
Replace QK10 or QK11.
OK
Are the VD+3.3V and VD+2.5V voltage lines of QK01 normal?
NG
Check the soldering of QK91, QK92 and circumference components.
Check the soldering of LD01and LK02.
OK
Check the E+4V voltage line.
OK
Replace QK91 or QK92.
OK
Refer to Video 2


Video 2
Is the IIC waveform of 135pin and 136pin on QK01 normal?
NG
Check the IIC waveform of 1pin on QK07 and QK08.
OK
NG
OK
Check the soldering of RK28, RK29, QK07 and QK08.
OK
Replace QK07 or QK08.
Check the soldering of Q102 (57pin and 58pin), R160 and R161.
OK
Refer to Refer to “3.1 Check the panel microprocessor”.
Is communication of the data bus and address line between QK03 and QK01 normal?
NG
Check the VD+3.3V voltage line.
OK
NG
OK
Check the soldering of QK03, RK14-26 and RK31-33.
OK
Replace QK01 or QK03.
Check the soldering of LK03, CK30 and CK31.
Are digital outputs of QK01 normal? PC(0-9), PY(0-9), SD(0-9), SDVSYNC, SDHSYNC, SDCLK (27MHz) and SDCLK2 (27MHz)
NG
Check the soldering of QK01 (from 20 to 67 pin).
OK
Replace QK01 or QK03.
OK
Finish
Refer to “Check the Video encoder” or “Check the HDMI PCB”.

3.5 Check the Video encoder. (Component, CVBS, Y/C)

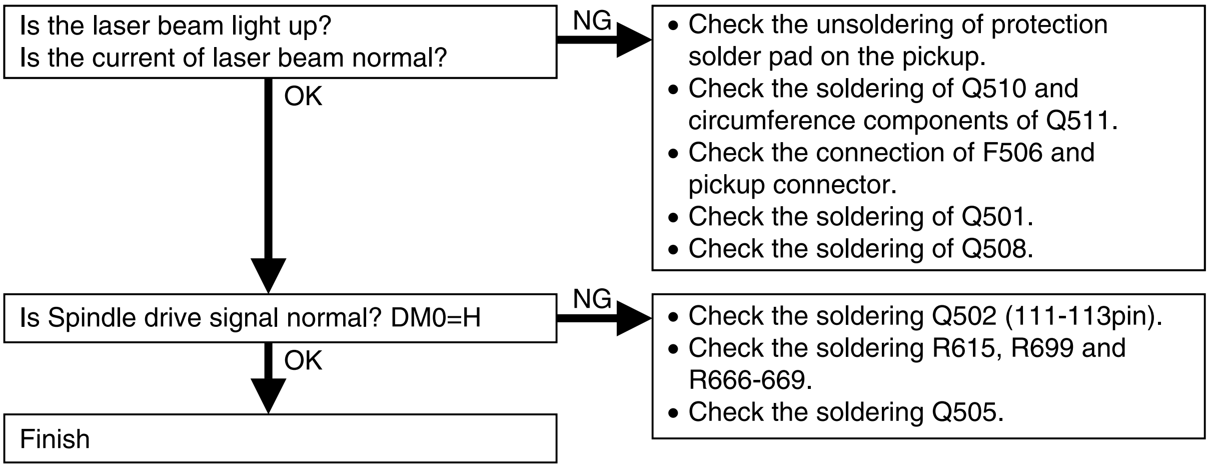

Are the VD+3.3V and +2.5AD voltage lines of QM01 normal?
NG
Check the soldering of QM01, LM01, LM02, LM03, QK91 and QM91.
OK
Check the input voltage of QK91 and QM91.
NG
OK
Replace QK91 or QM92.
Refer to “POWER SUPPLY PCB”.
OK
Is the reset signal of QM01 (33pin) normal? VRST_5=H
NG
Check the soldering of QK10 (18pin), RM12 and CM09.
OK
Refer to “3.4 Check the DIGITAL VIDEO OUTPUT”.
OK
Are the digital data of QM01 normal? 2-9pin, 12-18pin, 26-30pin, 51-55pin and 58-62pin
NG
Check the soldering of RM01-05, RM26-29 and QM01.
OK
Refer to “3.4 Check the DIGITAL VIDEO OUTPUT”.
OK
Is the master clock waveform of 32pin on QM01 normal? 27MHz 2Vp-p
NG
Check the soldering of RM11 and QM01.
OK
Refer to “3.4 Check the DIGITAL VIDEO OUTPUT”.
OK
Is the IIC waveform of 21pin and 22pin on QM01 normal?
NG
Check the soldering of RM08, RM09 and QM01.
OK
Check the soldering of QK07 and QK08.
OK
Refer to “3.4 Check the DIGITAL VIDEO OUTPUT”.
OK
Are the video signals outputted to each pin of JM01? 1pin=video, 3pin=S-C, 5pin=S-Y, 7pin=component-Y, 9pin=Cb, 11pin=Cr
NG
Check the soldering of QM02-QM07 and circumference resistors.
OK
Check the output signals of QM01 (37-39 pin and 42-44pin).
OK
Replace QM02-QM07.
OK
Finish

3.6 Check the Video encoder. (RGB)


Are the VD+3.3V and +2.5AD voltage lines of QN01 normal?
NG
Check the soldering of QN01, LN01, LN02, LN03, QK91 and QM91.
OK
Check the input voltage of QK91 and QM91.
NG
OK
Replace QK91 or QM92.
Refer to “POWER SUPPLY PCB”.
OK
Is the reset signal of QN01 (33pin) normal?
VRST_5=H
NG
Check the soldering of QK10 (18pin), RN06 and CN09.
OK
Refer to “3.4 Check the DIGITAL VIDEO OUTPUT”.
OK
Are the digital data of QN01 normal?
51-55pin and 58-62pin
NG
Check the soldering of RM23-26 and QN01.
OK
Refer to “3.4 Check the DIGITAL VIDEO OUTPUT”.
OK
Is the master clock waveform of 32pin on QN01 normal?
27MHz 2Vp-p
NG
Check the soldering of RN05 and QN01.
OK
Refer to “3.4 Check the DIGITAL VIDEO OUTPUT”.
OK
Is the IIC waveform of 21pin and 22pin on QN01 normal?
NG
Check the soldering of RN02, RN03 and QN01.
OK
Check the soldering of QK07 and QK08.
OK
Refer to “3.4 Check the DIGITAL VIDEO OUTPUT”.
OK
Are the video signals outputted to each pin of JN01?
4pin=G, 6pin=B, 8pin=R
NG
Check the soldering of QN02-QN04 and circumference resistors.
OK
Check the output signals of QN01 (37-39pin).
OK
Replace QN02-QN04.
OK
Finish

3.7 Check the Playback disc.

3.7.1 Loader is not rotate.



Is the laser beam light up?
Is the current of laser beam normal?

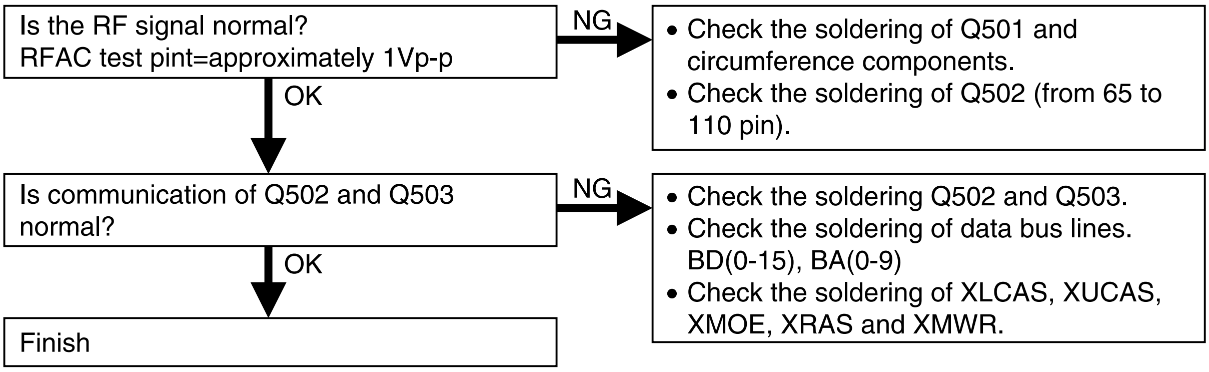
- Check the unsoldering of protection solder pad on the pickup.
- Check the soldering of Q510 and circumference components of Q511.
- Check the connection of F506 and pickup connector.
- Check the soldering of Q501.
- Check the soldering of Q508.

Is Spindle drive signal normal? DM0=H

- Check the soldering Q502 (111-113pin).
- Check the soldering R615, R699 and R666-669.
- Check the soldering Q505.

Finish

3.7.2 CD playback



Is the RF signal normal?
RFAC test pint=approximately 1Vp-p

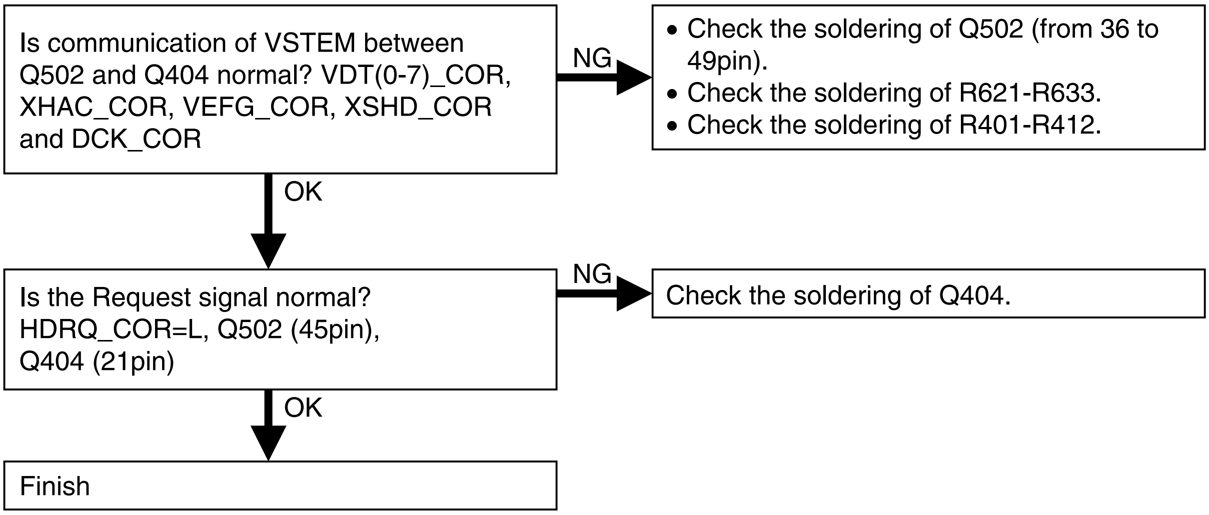
- Check the soldering of Q501 and circumference components.
- Check the soldering of Q502 (from 65 to 110 pin).

Is communication of Q502 and Q503 normal?

- Check the soldering Q502 and Q503.
- Check the soldering of data bus lines. BD(0-15), BA(0-9)
- Check the soldering of XLCAS, XUCAS, XMOE, XRAS and XMWR.

Finish

3.7.3 DVD playback



Is communication of VSTEM between Q502 and Q404 normal? VDT(0-7)_COR, XHAC_COR, VEFG_COR, XSHD_COR and DCK_COR

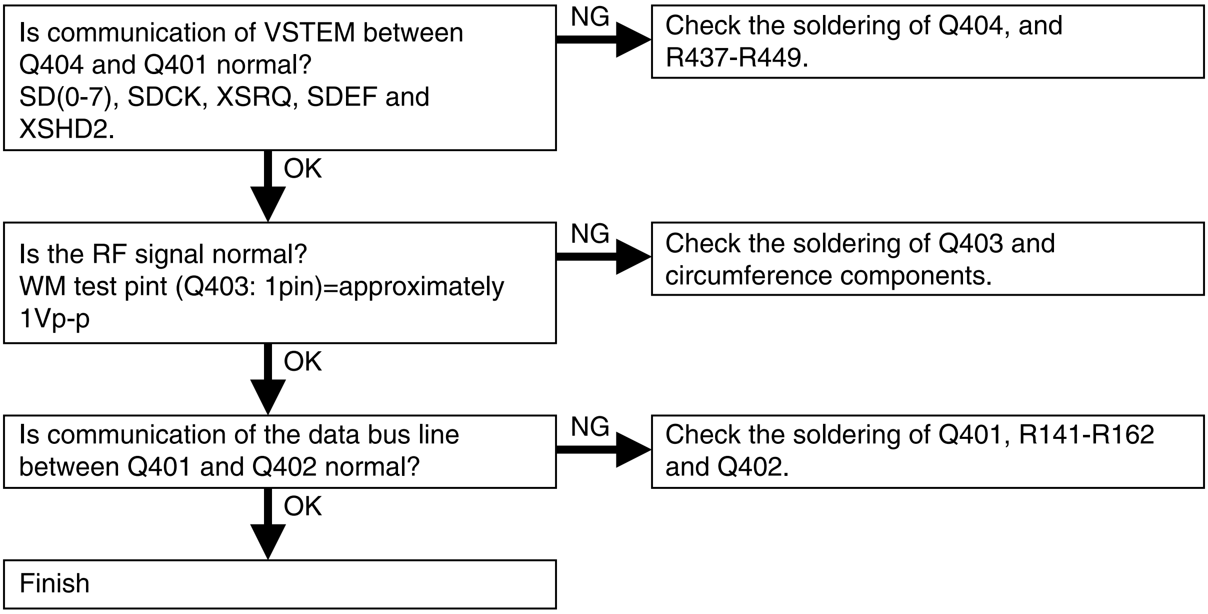
- Check the soldering of Q502 (from 36 to 49pin).
- Check the soldering of R621-R633.
- Check the soldering of R401-R412.

Is the Request signal normal?
HDRQ_COR=L, Q502 (45pin),
Q404 (21pin)

Check the soldering of Q404.

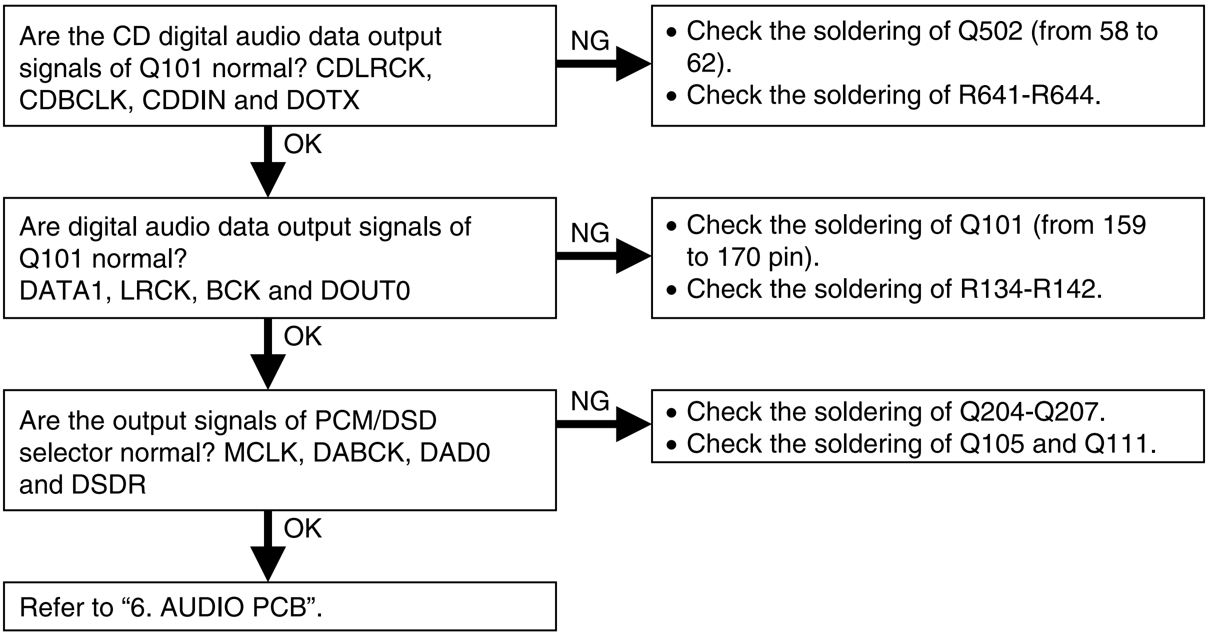
Finish

3.7.4 Super Audio CD playback

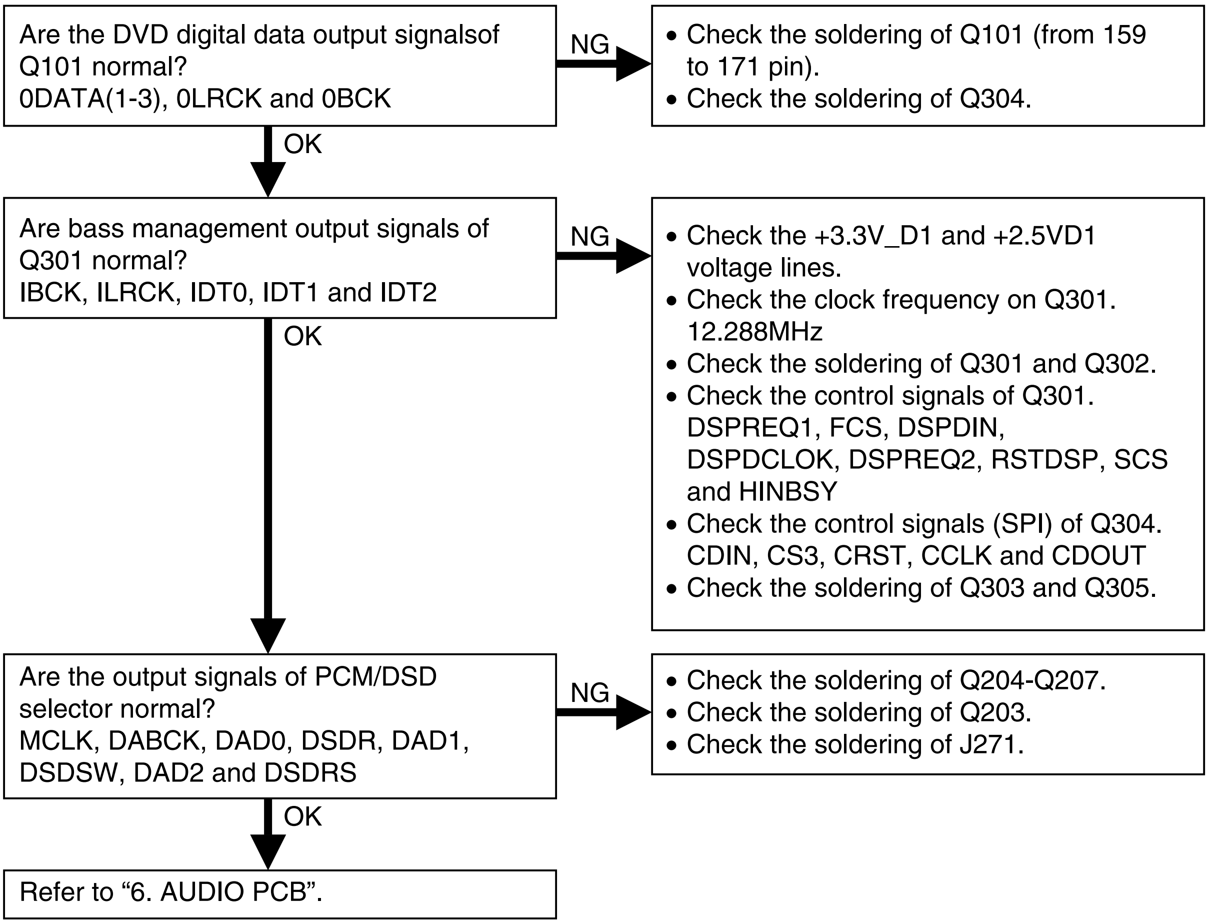

Is communication of VSTEM between Q404 and Q401 normal? SD(0-7), SDCK, XSRQ, SDEF and XSHD2.
NG
Check the soldering of Q404, and R437-R449.
OK
Is the RF signal normal? WM test pint (Q403: 1pin)=approximately 1Vp-p
NG
Check the soldering of Q403 and circumference components.
OK
Is communication of the data bus line between Q401 and Q402 normal?
NG
Check the soldering of Q401, R141-R162 and Q402.
OK
Finish

3.8 No sound or noisy

3.8.1 CD playback


Are the CD digital audio data output signals of Q101 normal? CDLRCK, CDBCLK, CDDIN and DOTX
NG
• Check the soldering of Q502 (from 58 to 62).
• Check the soldering of R641-R644.
OK
Are digital audio data output signals of Q101 normal? DATA1, LRCK, BCK and DOUT0
NG
• Check the soldering of Q101 (from 159 to 170 pin).
• Check the soldering of R134-R142.
OK
Are the output signals of PCM/DSD selector normal? MCLK, DABCK, DAD0 and DSDR
NG
• Check the soldering of Q204-Q207.
• Check the soldering of Q105 and Q111.
OK
Refer to “6. AUDIO PCB”.

3.8.2 DVD-Video/Audio playback



Are the DVD digital data output signalsof Q101 normal?
0DATA(1-3), 0LRCK and 0BCK

NG:
- Check the soldering of Q101 (from 159 to 171 pin).
- Check the soldering of Q304.

OK:

Are bass management output signals of Q301 normal?
IBCK, ILRCK, IDT0, IDT1 and IDT2

NG:
- Check the +3.3V_D1 and +2.5VD1 voltage lines.
- Check the clock frequency on Q301. 12.288MHz
- Check the soldering of Q301 and Q302.
- Check the control signals of Q301. DSPREQ1, FCS, DSPDIN, DSPDCLOK, DSPREQ2, RSTDSP, SCS and HINBSY
- Check the control signals (SPI) of Q304. CDIN, CS3, CRST, CCLK and CDOUT
- Check the soldering of Q303 and Q305.

OK:

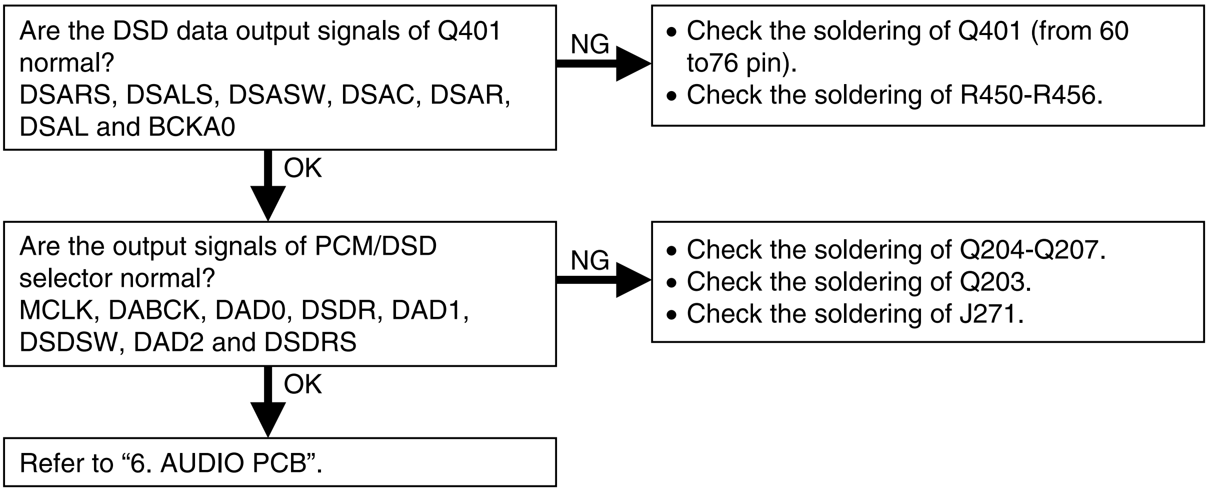
Are the output signals of PCM/DSD selector normal?
MCLK, DABCK, DAD0, DSDR, DAD1, DSDSW, DAD2 and DSDRS

NG:
- Check the soldering of Q204-Q207.
- Check the soldering of Q203.
- Check the soldering of J271.

OK:

Refer to “6. AUDIO PCB”.

3.8.3 Super Audio CD playback



Are the DSD data output signals of Q401 normal?
DSARS, DSALS, DSASW, DSAC, DSAR, DSAL and BCKA0

NG:
- Check the soldering of Q401 (from 60 to76 pin).
- Check the soldering of R450-R456.

OK:

Are the output signals of PCM/DSD selector normal?
MCLK, DABCK, DAD0, DSDR, DAD1, DSDSW, DAD2 and DSDRS

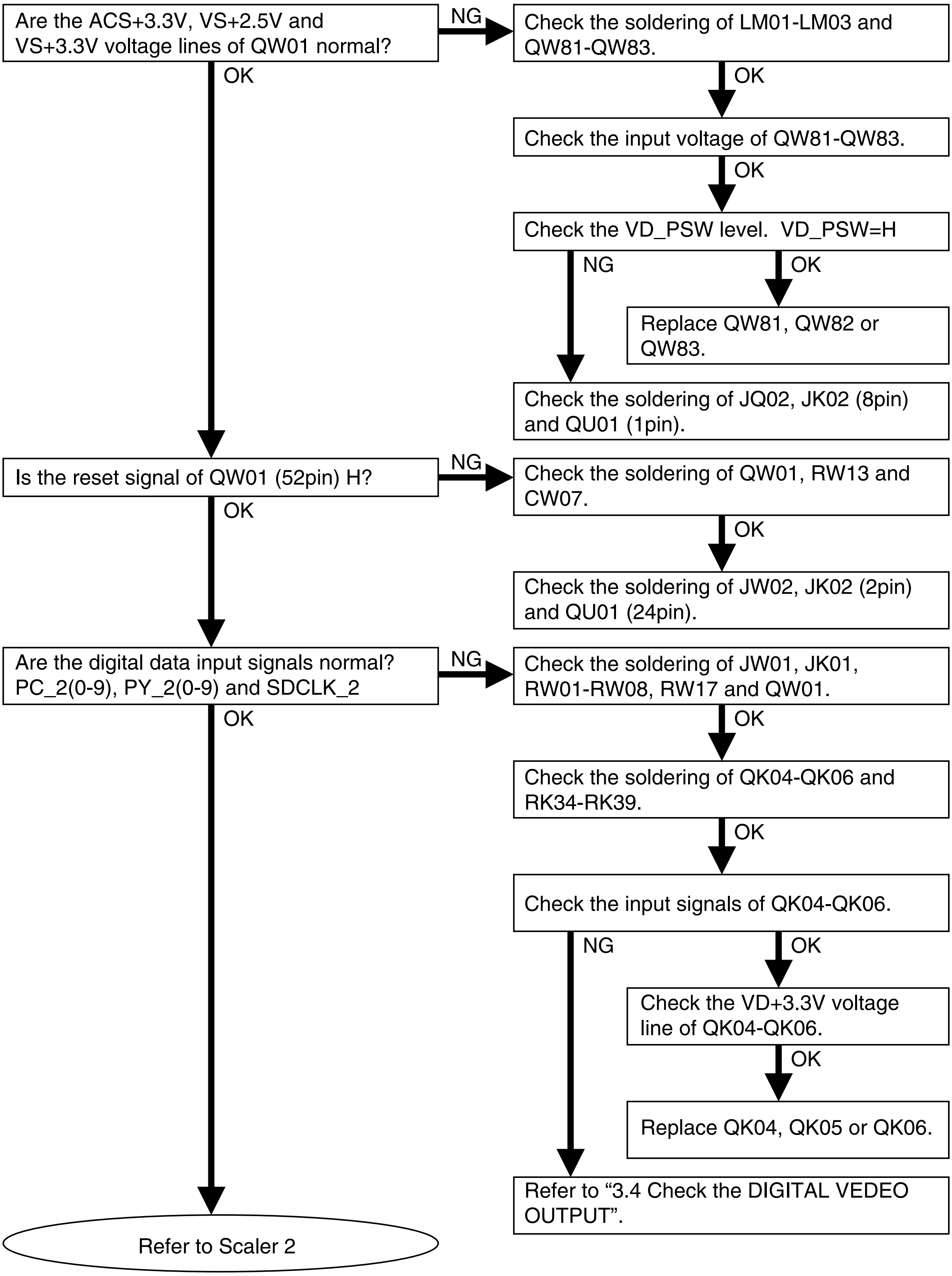
NG:
- Check the soldering of Q204-Q207.
- Check the soldering of Q203.
- Check the soldering of J271.

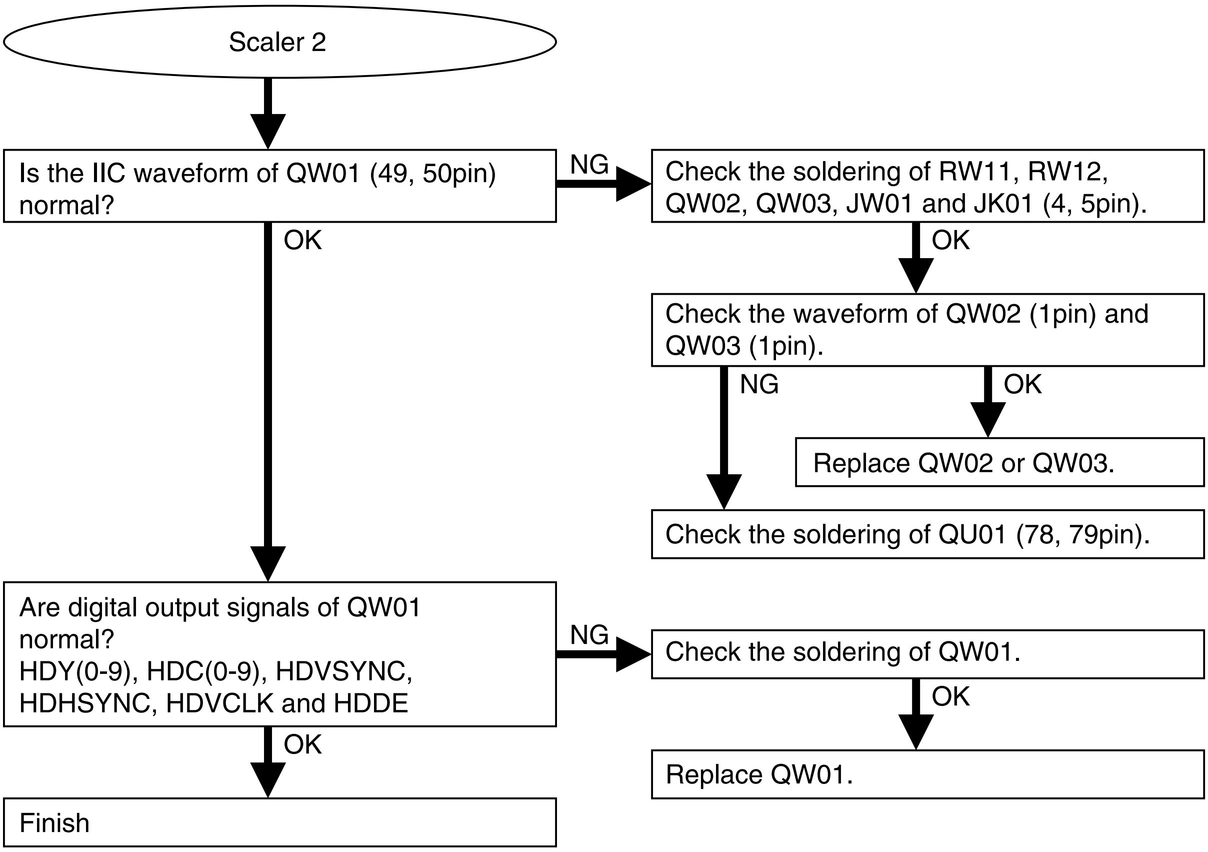
OK:

Refer to “6. AUDIO PCB”.

4. HDMI PCB (PT01)

4.1 Check the Scaler.

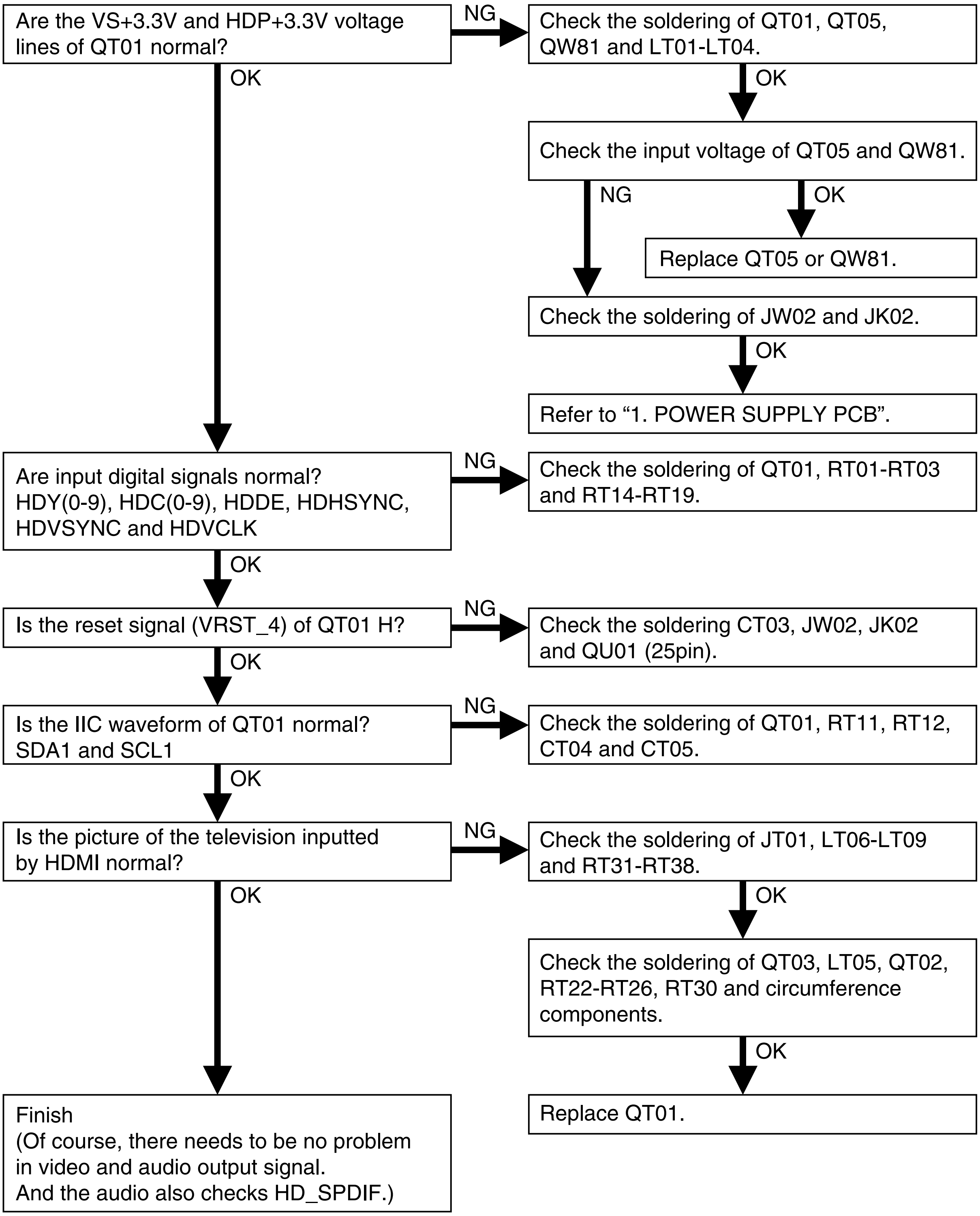

Are the ACS+3.3V, VS+2.5V and VS+3.3V voltage lines of QW01 normal?
NG
Check the soldering of LM01-LM03 and QW81-QW83.
OK
Check the input voltage of QW81-QW83.
OK
Check the VD_PSW level. VD_PSW=H
NG
OK
Replace QW81, QW82 or QW83.
Check the soldering of JQ02, JK02 (8pin) and QU01 (1pin).
OK
Is the reset signal of QW01 (52pin) H?
NG
Check the soldering of QW01, RW13 and CW07.
OK
Check the soldering of JW02, JK02 (2pin) and QU01 (24pin).
OK
Are the digital data input signals normal? PC_2(0-9), PY_2(0-9) and SDCLK_2
NG
Check the soldering of JW01, JK01, RW01-RW08, RW17 and QW01.
OK
Check the soldering of QK04-QK06 and RK34-RK39.
OK
Check the input signals of QK04-QK06.
NG
OK
Check the VD+3.3V voltage line of QK04-QK06.
OK
Replace QK04, QK05 or QK06.
OK
Refer to Scaler 2
Refer to “3.4 Check the DIGITAL VEDEO OUTPUT”.


Scaler 2
Is the IIC waveform of QW01 (49, 50pin) normal?
NG
Check the soldering of RW11, RW12, QW02, QW03, JW01 and JK01 (4, 5pin).
OK
Check the waveform of QW02 (1pin) and QW03 (1pin).
NG
OK
Replace QW02 or QW03.
Check the soldering of QU01 (78, 79pin).
OK
Are digital output signals of QW01 normal?
HDY(0-9), HDC(0-9), HDVSYNC, HDHSYNC, HDVCLK and HDDE
NG
Check the soldering of QW01.
OK
Replace QW01.
OK
Finish

Notice

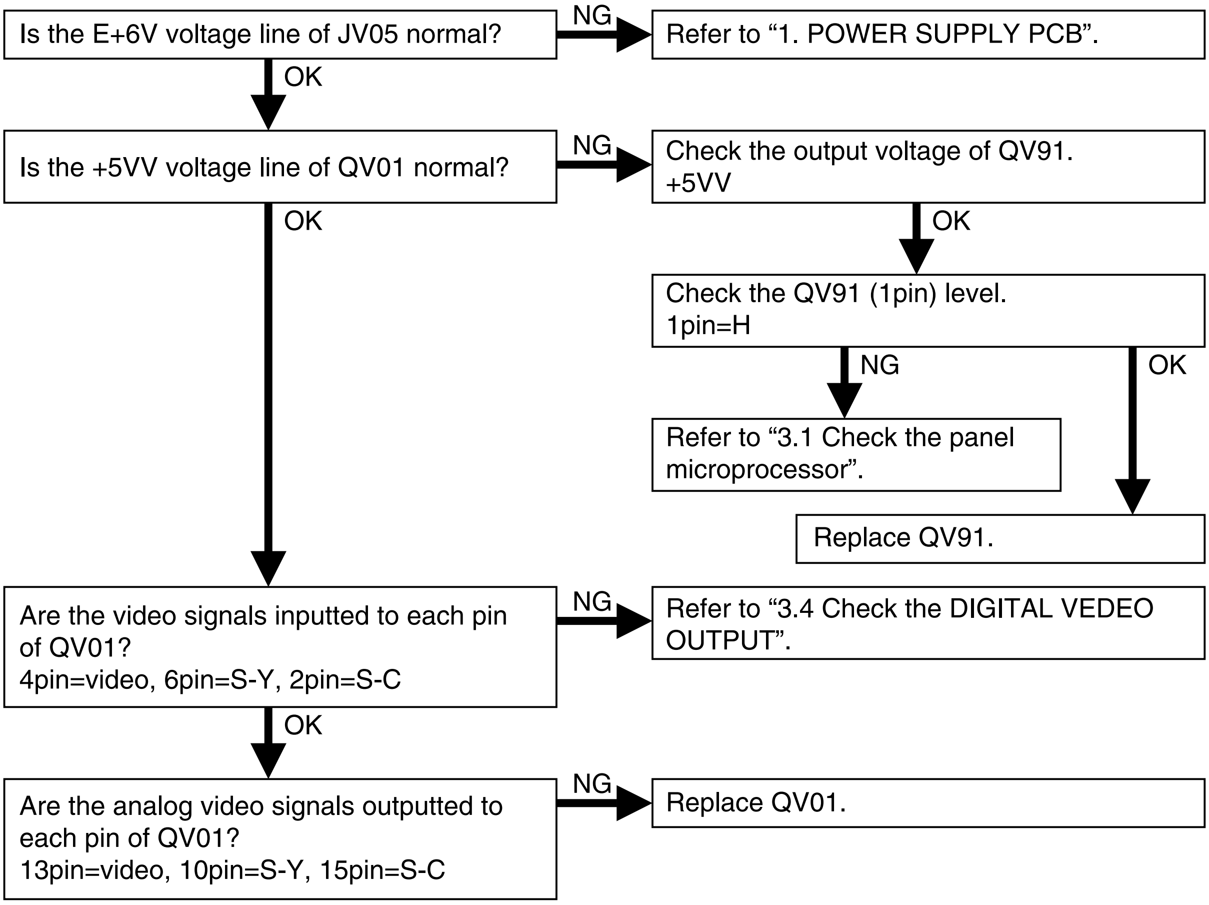
OUTPUT Format	Frequency of HDVCLK Signal
720P	74.5MHz
1080i	74.5MHz
480P	27MHz
576P	27MHz
VGA	25MHz

4.2 Check the HDMI driver.

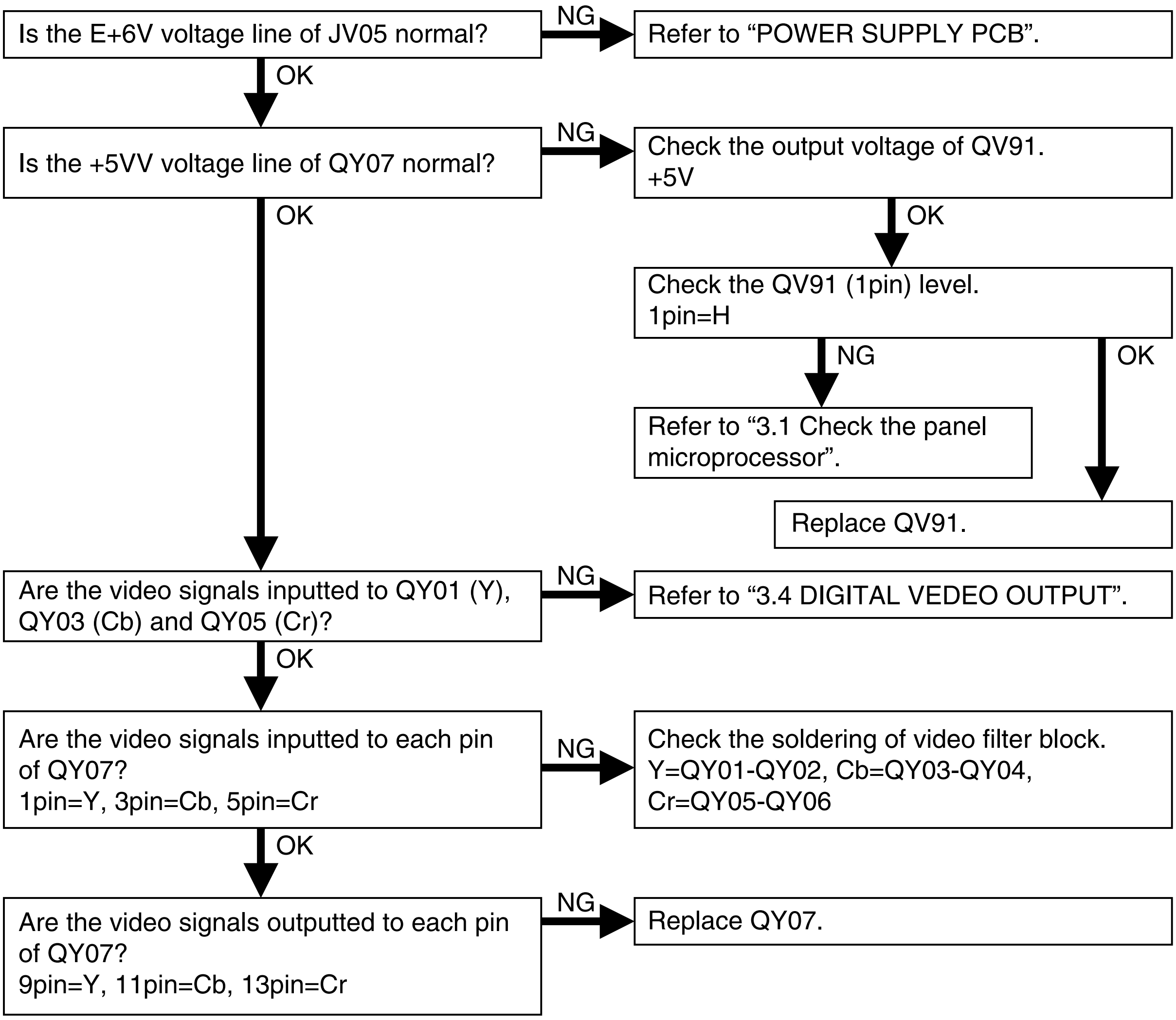

Are the VS+3.3V and HDP+3.3V voltage lines of QT01 normal?
NG
Check the soldering of QT01, QT05, QW81 and LT01-LT04.
OK
Check the input voltage of QT05 and QW81.
NG
OK
Replace QT05 or QW81.
Check the soldering of JW02 and JK02.
OK
Refer to “1. POWER SUPPLY PCB”.
OK
Are input digital signals normal? HDY(0-9), HDC(0-9), HDDE, HDHSYNC, HDVSYNC and HDVCLK
NG
Check the soldering of QT01, RT01-RT03 and RT14-RT19.
OK
Is the reset signal (VRST_4) of QT01 H?
NG
Check the soldering CT03, JW02, JK02 and QU01 (25pin).
OK
Is the IIC waveform of QT01 normal? SDA1 and SCL1
NG
Check the soldering of QT01, RT11, RT12, CT04 and CT05.
OK
Is the picture of the television inputted by HDMI normal?
NG
Check the soldering of JT01, LT06-LT09 and RT31-RT38.
OK
Check the soldering of QT03, LT05, QT02, RT22-RT26, RT30 and circumference components.
OK
Replace QT01.
OK
Finish
(Of course, there needs to be no problem in video and audio output signal.
And the audio also checks HD_SPDIF.)

5. Check the analog video output signal.

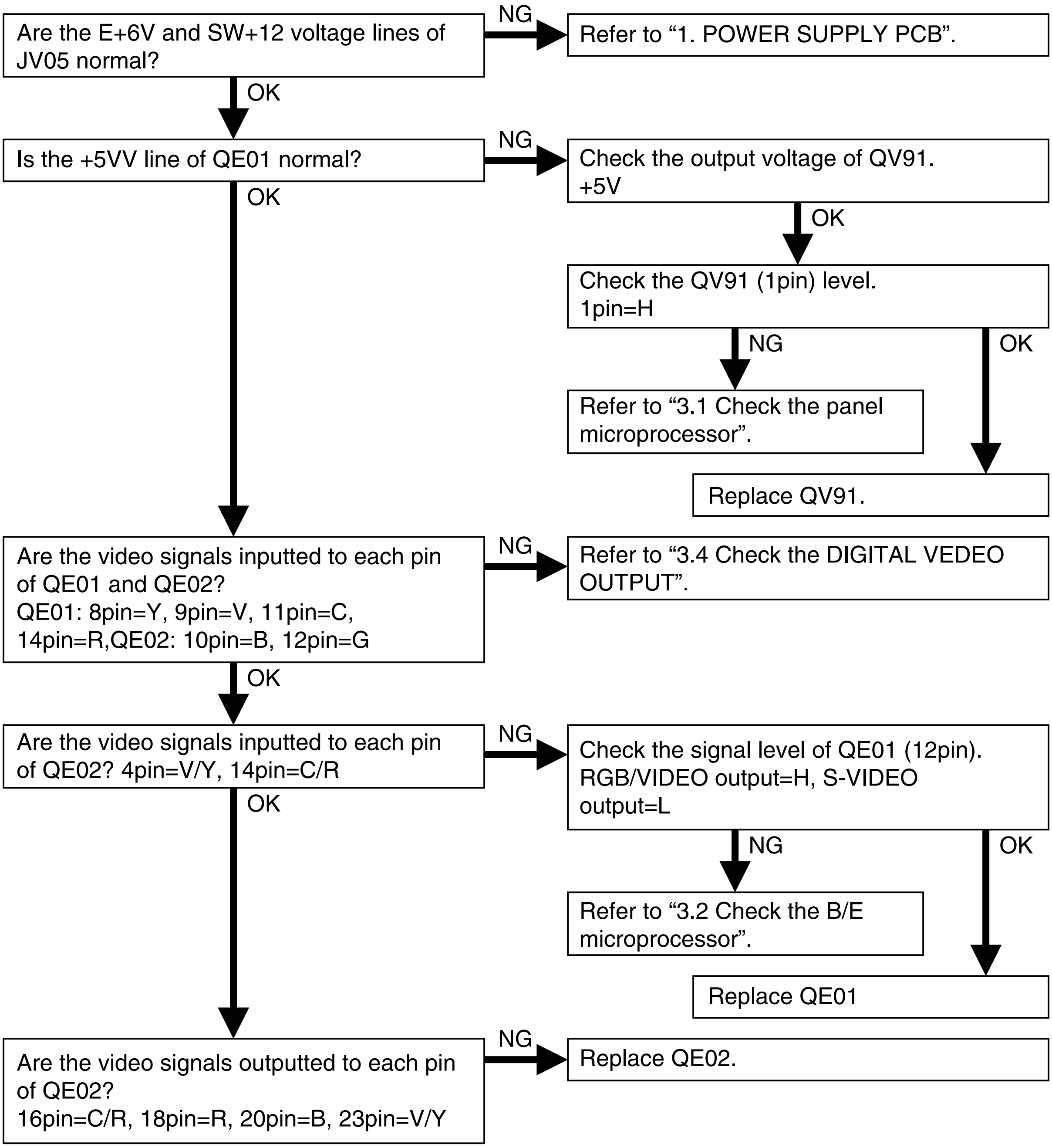
5.1 Picture is not outputted normally. (Composite, Y/C)


Is the E+6V voltage line of JV05 normal?
NG
Refer to "1. POWER SUPPLY PCB".
OK
Is the +5VV voltage line of QV01 normal?
NG
Check the output voltage of QV91. +5VV
OK
OK
Check the QV91 (1pin) level. 1pin=H
NG
OK
Refer to "3.1 Check the panel microprocessor".
Replace QV91.
Are the video signals inputted to each pin of QV01? 4pin=video, 6pin=S-Y, 2pin=S-C
NG
Refer to "3.4 Check the DIGITAL VEDEO OUTPUT".
OK
Are the analog video signals outputted to each pin of QV01? 13pin=video, 10pin=S-Y, 15pin=S-C
NG
Replace QV01.

5.2 Picture is not outputted normally. (Component)


Is the E+6V voltage line of JV05 normal?
NG
Refer to “POWER SUPPLY PCB”.
OK
Is the +5VV voltage line of QY07 normal?
NG
Check the output voltage of QV91.
+5V
OK
OK
Check the QV91 (1pin) level.
1pin=H
NG
OK
Refer to “3.1 Check the panel microprocessor”.
Replace QV91.
Are the video signals inputted to QY01 (Y), QY03 (Cb) and QY05 (Cr)?
NG
Refer to “3.4 DIGITAL VEDEO OUTPUT”.
OK
Are the video signals inputted to each pin of QY07?
1pin=Y, 3pin=Cb, 5pin=Cr
NG
Check the soldering of video filter block.
Y=QY01-QY02, Cb=QY03-QY04,
Cr=QY05-QY06
OK
Are the video signals outputted to each pin of QY07?
9pin=Y, 11pin=Cb, 13pin=Cr
NG
Replace QY07.

5.3 Picture is not outputted normally. (SCART)



Are the E+6V and SW+12 voltage lines of JV05 normal?

Refer to “1. POWER SUPPLY PCB”.

Is the +5VV line of QE01 normal?

Check the output voltage of QV91. +5V

Check the QV91 (1pin) level. 1pin=H

Refer to “3.1 Check the panel microprocessor”.

Replace QV91.

Are the video signals inputted to each pin of QE01 and QE02? QE01: 8pin=Y, 9pin=V, 11pin=C, 14pin=R,QE02: 10pin=B, 12pin=G

Refer to “3.4 Check the DIGITAL VEDEO OUTPUT”.

Are the video signals inputted to each pin of QE02? 4pin=V/Y, 14pin=C/R

Check the signal level of QE01 (12pin). RGB/VIDEO output=H, S-VIDEO output=L

Refer to “3.2 Check the B/E microprocessor”.

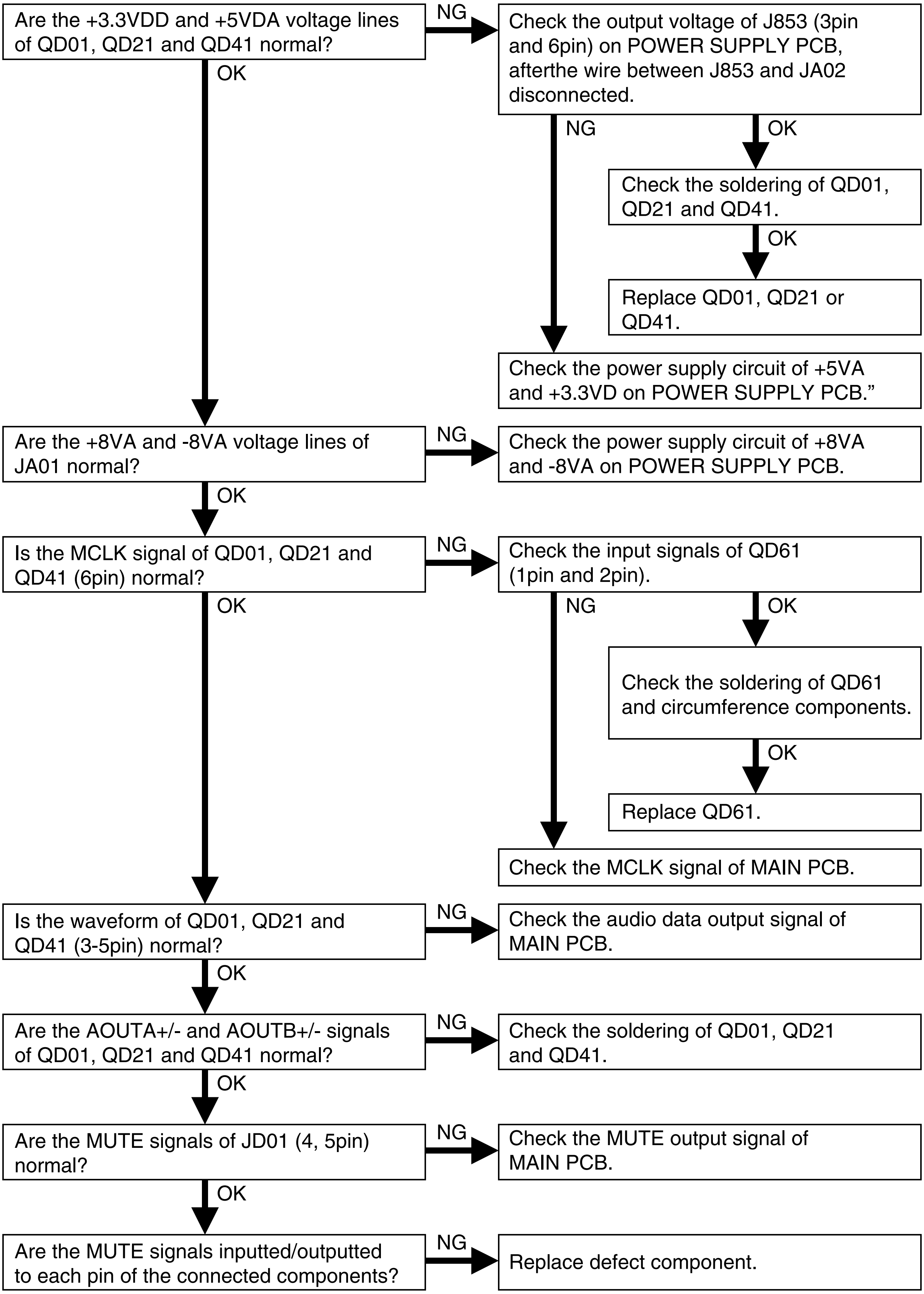
Replace QE01

Are the video signals outputted to each pin of QE02? 16pin=C/R, 18pin=R, 20pin=B, 23pin=V/Y

Replace QE02.

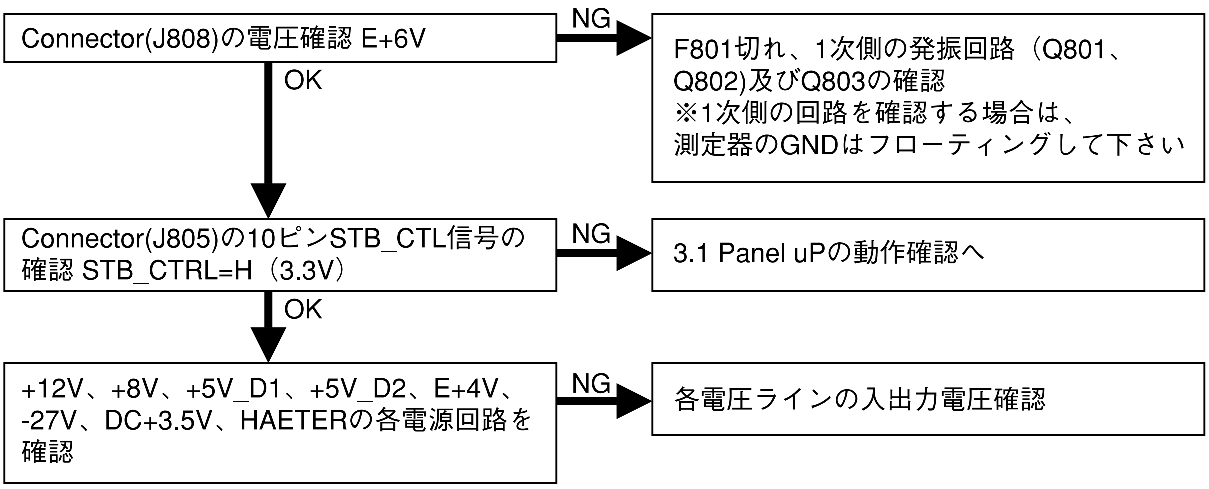
6. AUDIO PCB (PV01)

6.1 Audio is not outputted normally.


Are the +3.3VDD and +5VDA voltage lines of QD01, QD21 and QD41 normal?
NG
Check the output voltage of J853 (3pin and 6pin) on POWER SUPPLY PCB, afterthe wire between J853 and JA02 disconnected.
NG
OK
Check the soldering of QD01, QD21 and QD41.
OK
Replace QD01, QD21 or QD41.
Check the power supply circuit of +5VA and +3.3VD on POWER SUPPLY PCB.”
OK
Are the +8VA and -8VA voltage lines of JA01 normal?
NG
Check the power supply circuit of +8VA and -8VA on POWER SUPPLY PCB.
OK
Is the MCLK signal of QD01, QD21 and QD41 (6pin) normal?
NG
Check the input signals of QD61 (1pin and 2pin).
NG
OK
Check the soldering of QD61 and circumference components.
OK
Replace QD61.
Check the MCLK signal of MAIN PCB.
OK
Is the waveform of QD01, QD21 and QD41 (3-5pin) normal?
NG
Check the audio data output signal of MAIN PCB.
OK
Are the AOUTA+/- and AOUTB+/- signals of QD01, QD21 and QD41 normal?
NG
Check the soldering of QD01, QD21 and QD41.
OK
Are the MUTE signals of JD01 (4, 5pin) normal?
NG
Check the MUTE output signal of MAIN PCB.
OK
Are the MUTE signals inputted/outputted to each pin of the connected components?
NG
Replace defect component.

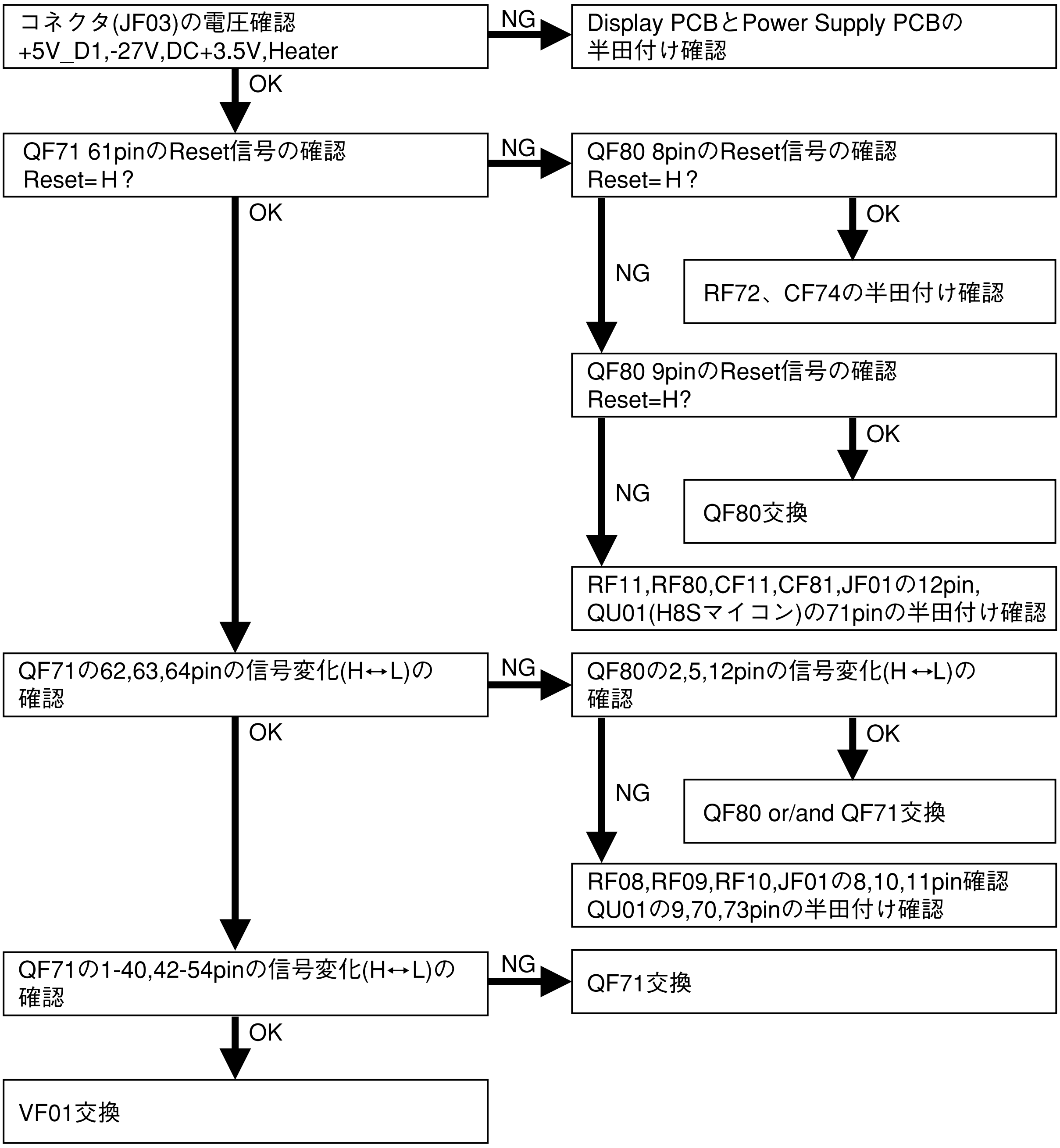
1. POWER SUPPLY PCB (P801)

1.1 電源入らず

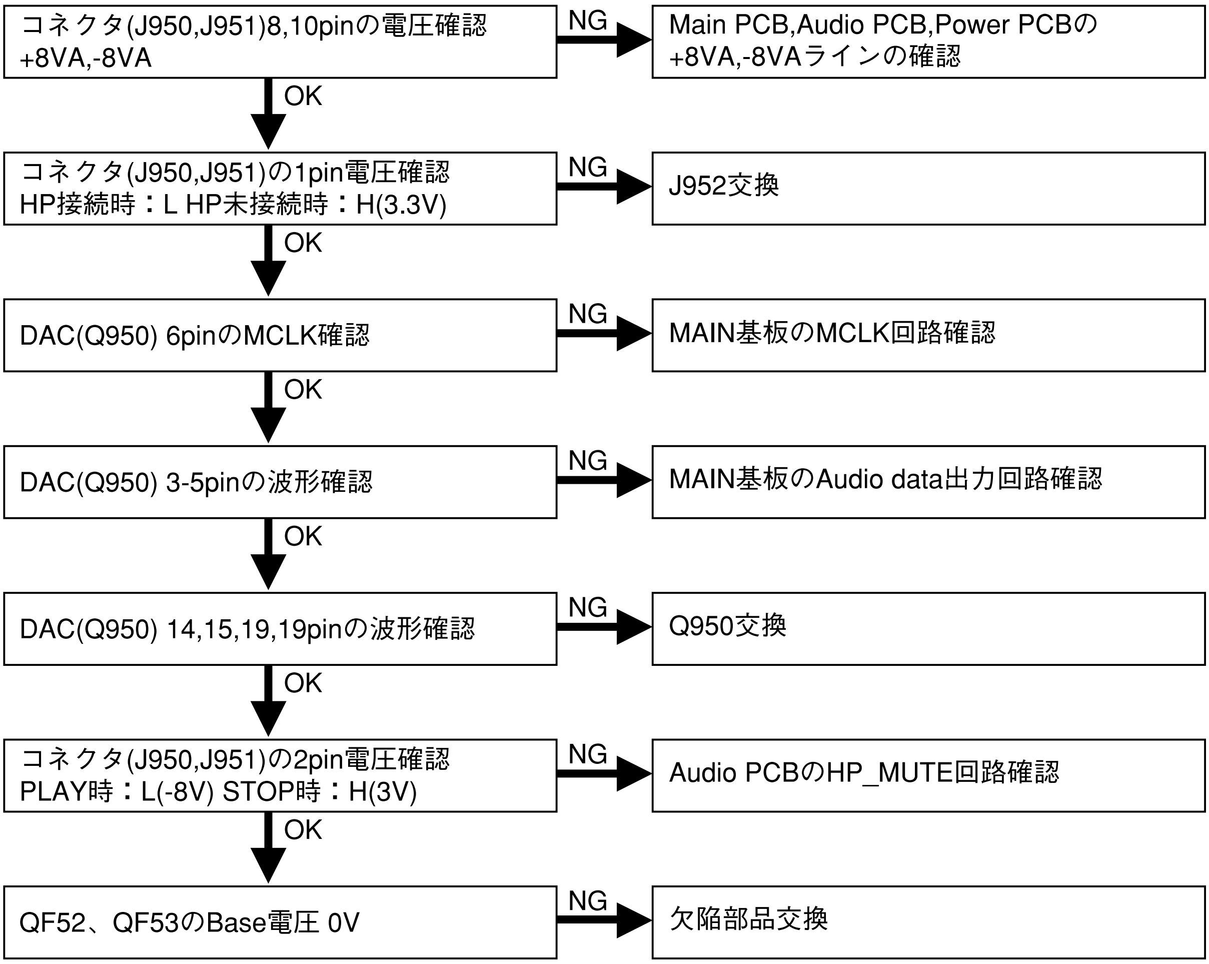

Connector(J808)の電圧確認 E+6V
NG
F801切れ、1次側の発振回路（Q801、Q802)及びQ803の確認
※1次側の回路を確認する場合は、測定器のGNDはフローティングして下さい
OK
Connector(J805)の10ピンSTB_CTL信号の確認 STB_CTRL=H（3.3V）
NG
3.1 Panel uPの動作確認へ
OK
+12V、+8V、+5V_D1、+5V_D2、E+4V、-27V、DC+3.5V、HAETERの各電源回路を確認
NG
各電圧ラインの入出力電圧確認

2. DISPLAY CONTROL / PHONE PCB

2.1 FL 表示せず

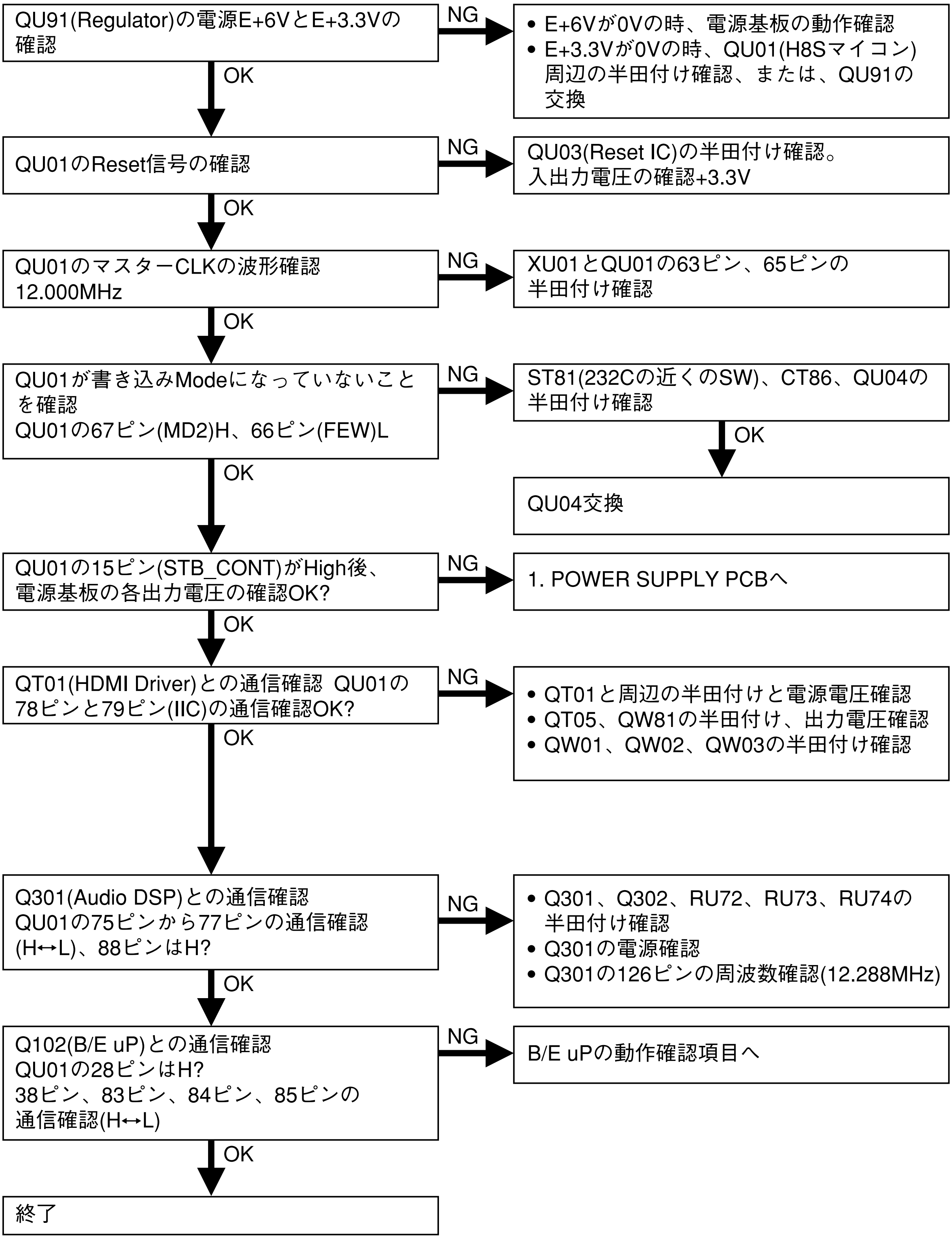

コネクタ(JF03)の電圧確認 +5V_D1,-27V,DC+3.5V,Heater
NG
Display PCBとPower Supply PCBの半田付け確認
OK
QF71 61pinのReset信号の確認 Reset=H？
NG
QF80 8pinのReset信号の確認 Reset=H？
OK
RF72、CF74の半田付け確認
NG
QF80 9pinのReset信号の確認 Reset=H?
OK
QF80交換
NG
RF11,RF80,CF11,CF81,JF01の12pin, QU01(H8Sマイコン)の71pinの半田付け確認
OK
QF71の62,63,64pinの信号変化(H↔L)の確認
NG
QF80の2,5,12pinの信号変化(H↔L)の確認
OK
QF80 or/and QF71交換
NG
RF08,RF09,RF10,JF01の8,10,11pin確認 QU01の9,70,73pinの半田付け確認
OK
QF71の1-40,42-54pinの信号変化(H↔L)の確認
NG
QF71交換
OK
VF01交換

2.2 ヘッドホン音出ず。（ヘッドホンを接続し確認します）

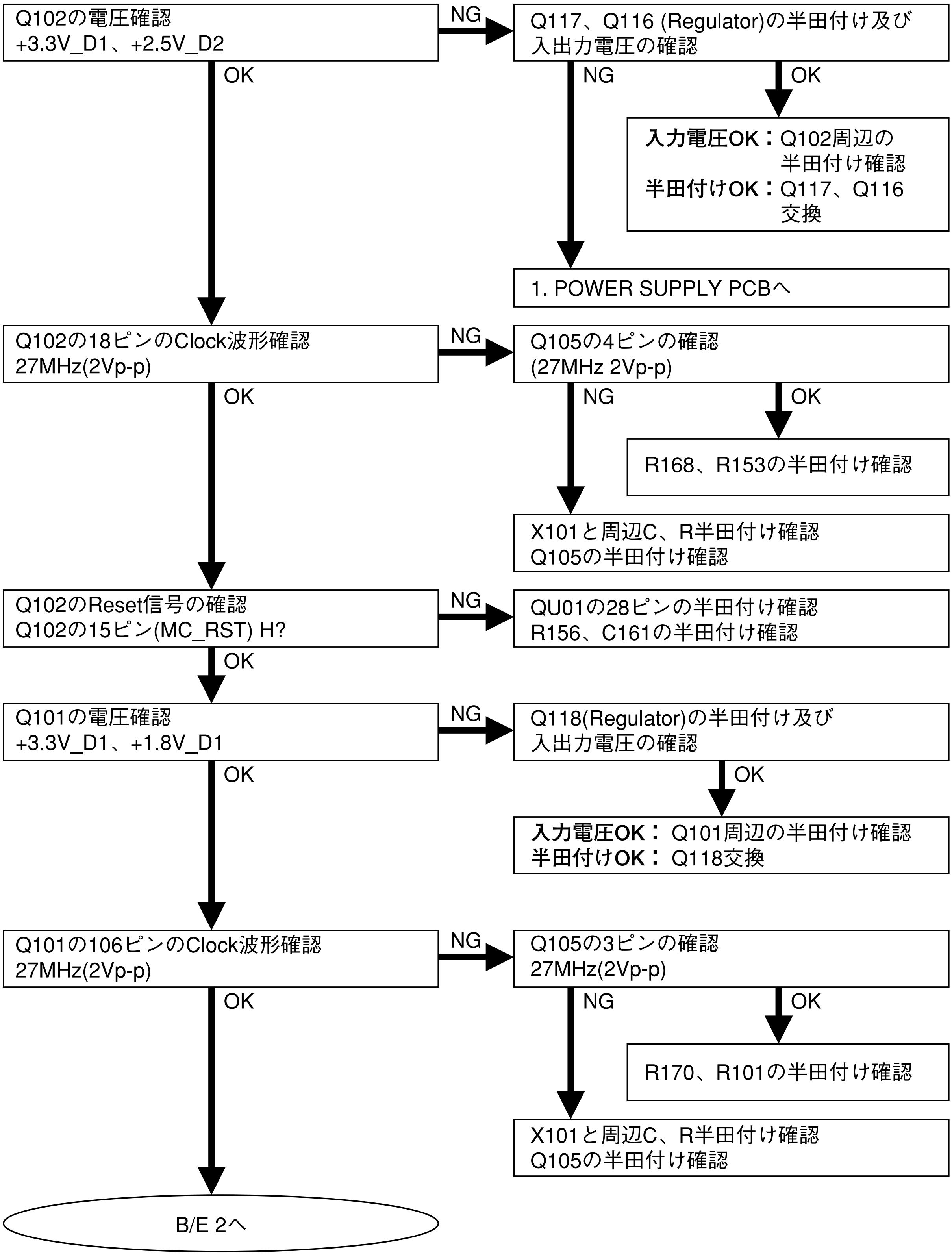

コネクタ(J950,J951)8,10pinの電圧確認
+8VA,-8VA
NG
Main PCB,Audio PCB,Power PCBの
+8VA,-8VAラインの確認
OK
コネクタ(J950,J951)の1pin電圧確認
HP接続時：L HP未接続時：H(3.3V)
NG
J952交換
OK
DAC(Q950) 6pinのMCLK確認
NG
MAIN基板のMCLK回路確認
OK
DAC(Q950) 3-5pinの波形確認
NG
MAIN基板のAudio data出力回路確認
OK
DAC(Q950) 14,15,19,19pinの波形確認
NG
Q950交換
OK
コネクタ(J950,J951)の2pin電圧確認
PLAY時：L(-8V) STOP時：H(3V)
NG
Audio PCBのHP_MUTE回路確認
OK
QF52、QF53のBase電圧 0V
NG
欠陥部品交換

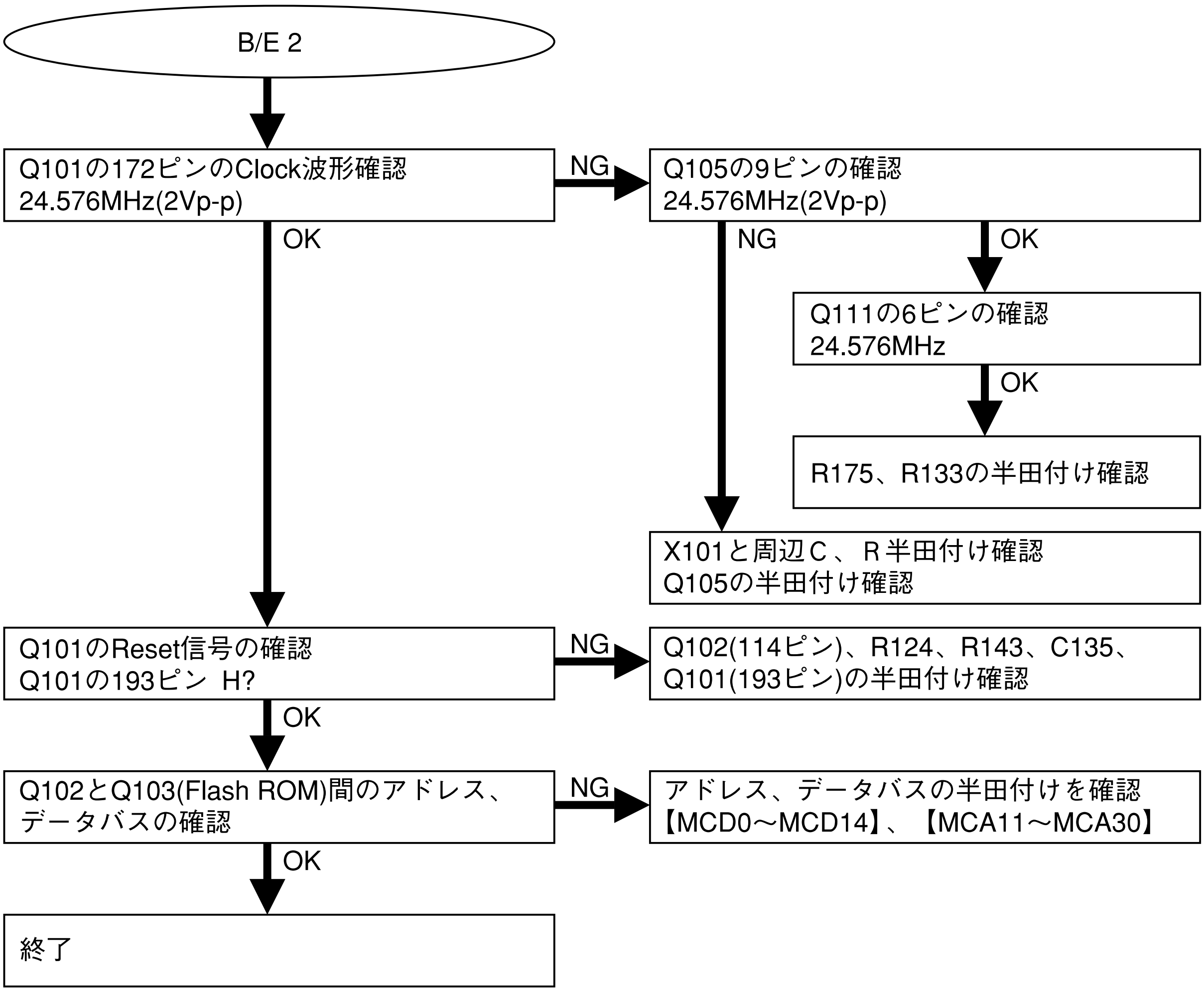
3. MAIN PCB (PM01)

3.1 Panel uP の動作確認

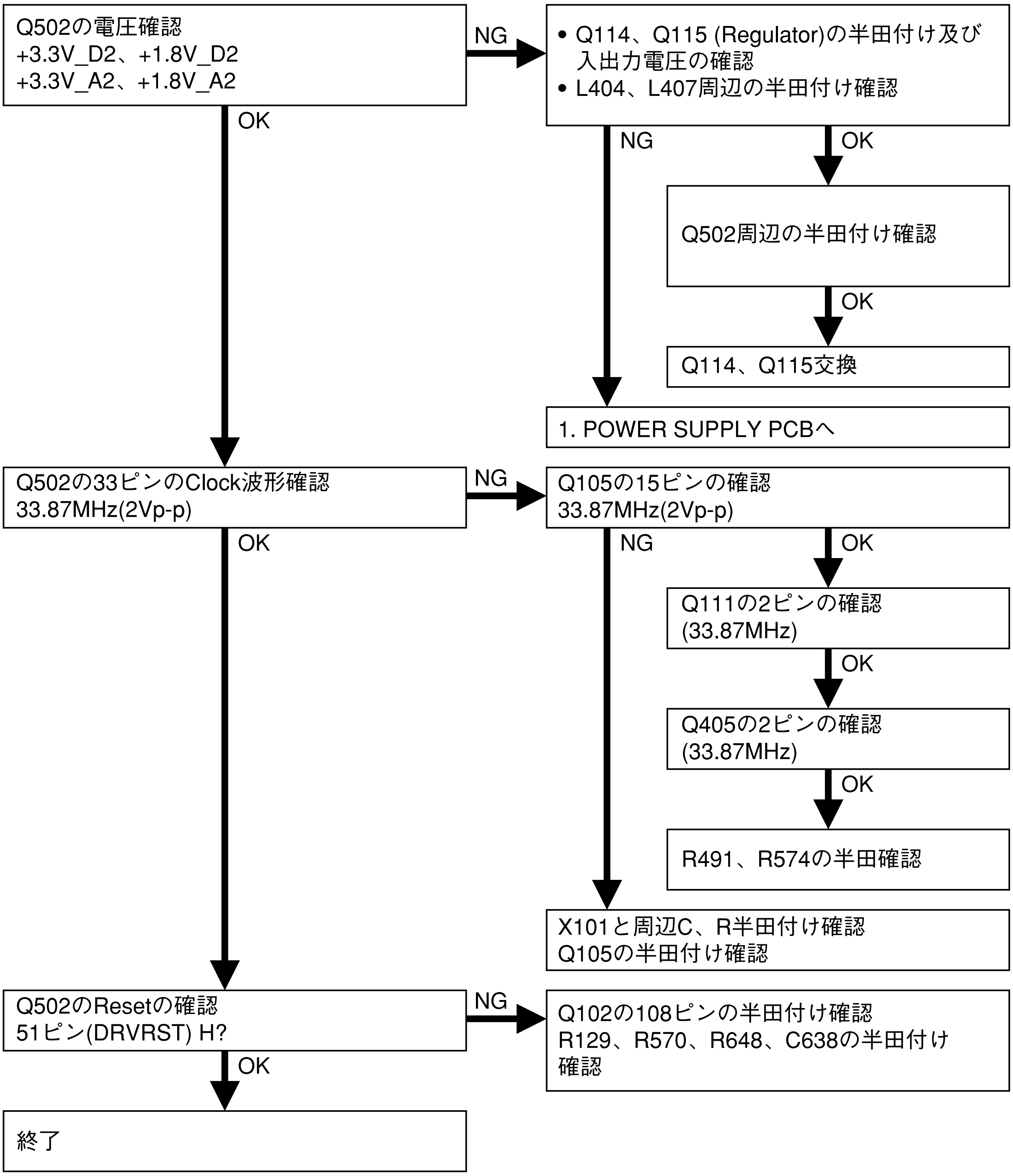

QU91(Regulator)の電源E+6VとE+3.3Vの確認
NG
• E+6Vが0Vの時、電源基板の動作確認
• E+3.3Vが0Vの時、QU01(H8Sマイコン)周辺の半田付け確認、または、QU91の交換
OK
QU01のReset信号の確認
NG
QU03(Reset IC)の半田付け確認。入出力電圧の確認+3.3V
OK
QU01のマスターCLKの波形確認 12.000MHz
NG
XU01とQU01の63ピン、65ピンの半田付け確認
OK
QU01が書き込みModeになっていないことを確認 QU01の67ピン(MD2)H、66ピン(FEW)L
NG
ST81(232Cの近くのSW)、CT86、QU04の半田付け確認
OK
QU04交換
OK
QU01の15ピン(STB_CONT)がHigh後、電源基板の各出力電圧の確認OK?
NG
1. POWER SUPPLY PCBへ
OK
QT01(HDMI Driver)との通信確認 QU01の78ピンと79ピン(IIC)の通信確認OK?
NG
• QT01と周辺の半田付けと電源電圧確認
• QT05、QW81の半田付け、出力電圧確認
• QW01、QW02、QW03の半田付け確認
OK
Q301(Audio DSP)との通信確認 QU01の75ピンから77ピンの通信確認(H↔L)、88ピンはH?
NG
• Q301、Q302、RU72、RU73、RU74の半田付け確認
• Q301の電源確認
• Q301の126ピンの周波数確認(12.288MHz)
OK
Q102(B/E uP)との通信確認 QU01の28ピンはH? 38ピン、83ピン、84ピン、85ピンの通信確認(H↔L)
NG
B/E uPの動作確認項目へ
OK
終了

3.2 B/E uP の動作確認

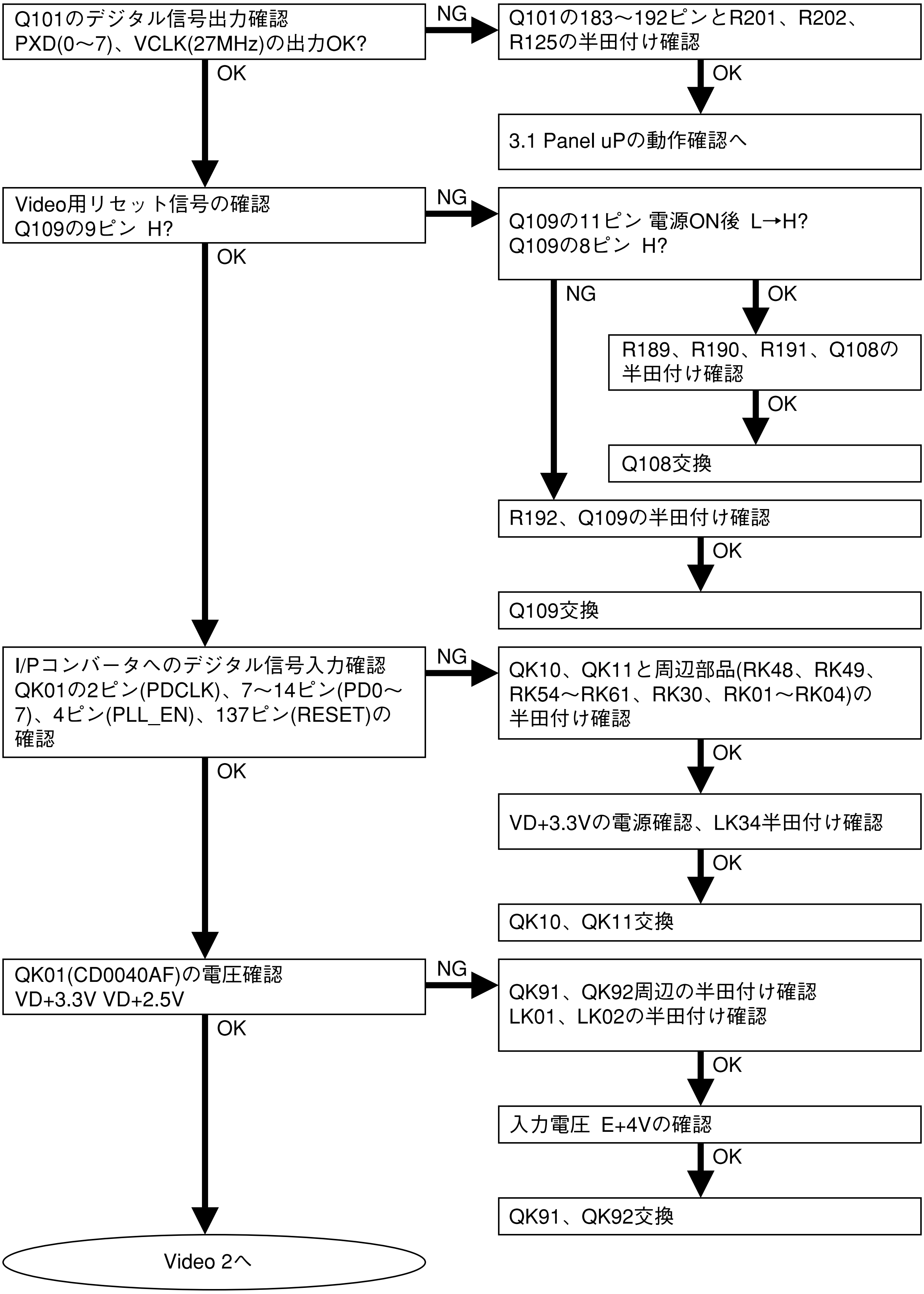

Q102の電圧確認
+3.3V_D1、+2.5V_D2
NG
Q117、Q116 (Regulator)の半田付け及び
入出力電圧の確認
OK
NG
OK
入力電圧OK：Q102周辺の
半田付け確認
半田付けOK：Q117、Q116
交換
1. POWER SUPPLY PCBへ
Q102の18ピンのClock波形確認
27MHz(2Vp-p)
NG
Q105の4ピンの確認
(27MHz 2Vp-p)
OK
NG
OK
R168、R153の半田付け確認
X101と周辺C、R半田付け確認
Q105の半田付け確認
Q102のReset信号の確認
Q102の15ピン(MC_RST) H?
NG
QU01の28ピンの半田付け確認
R156、C161の半田付け確認
OK
Q101の電圧確認
+3.3V_D1、+1.8V_D1
NG
Q118(Regulator)の半田付け及び
入出力電圧の確認
OK
OK
入力電圧OK： Q101周辺の半田付け確認
半田付けOK： Q118交換
Q101の106ピンのClock波形確認
27MHz(2Vp-p)
NG
Q105の3ピンの確認
27MHz(2Vp-p)
OK
NG
OK
R170、R101の半田付け確認
X101と周辺C、R半田付け確認
Q105の半田付け確認
B/E 2へ

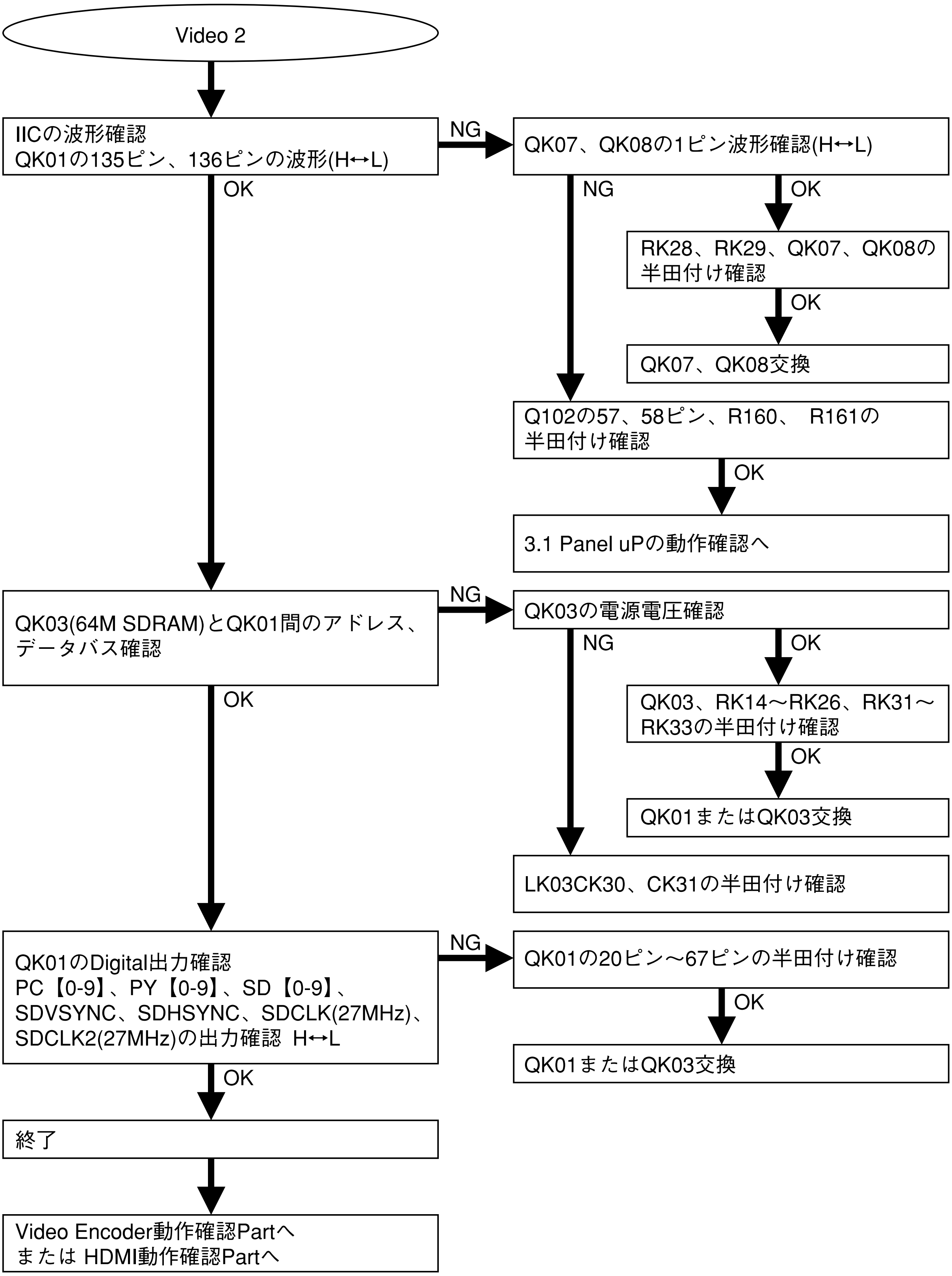

B/E 2
Q101の172ピンのClock波形確認
24.576MHz(2Vp-p)
NG
Q105の9ピンの確認
24.576MHz(2Vp-p)
OK
NG
OK
Q111の6ピンの確認
24.576MHz
OK
R175、R133の半田付け確認
X101と周辺C、R半田付け確認
Q105の半田付け確認
Q101のReset信号の確認
Q101の193ピン H?
NG
Q102(114ピン)、R124、R143、C135、
Q101(193ピン)の半田付け確認
OK
Q102とQ103(Flash ROM)間のアドレス、
データバスの確認
NG
アドレス、データバスの半田付けを確認
【MCD0～MCD14】、【MCA11～MCA30】
OK
終了

3.3 F/E uP の動作確認

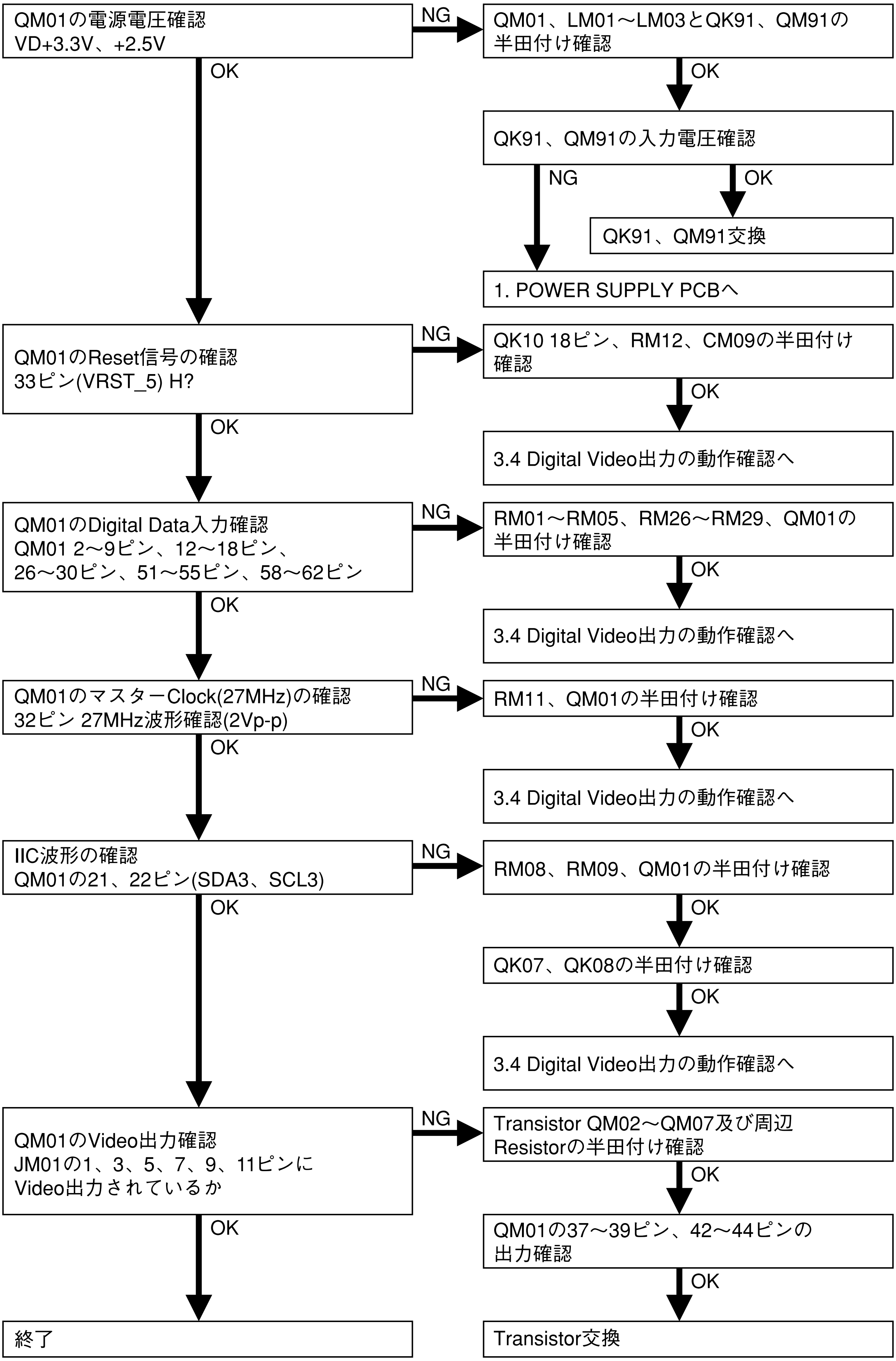

Q502の電圧確認
+3.3V_D2、+1.8V_D2
+3.3V_A2、+1.8V_A2
NG
• Q114、Q115 (Regulator)の半田付け及び入出力電圧の確認
• L404、L407周辺の半田付け確認
OK
NG
OK
Q502周辺の半田付け確認
OK
Q114、Q115交換
1. POWER SUPPLY PCBへ
Q502の33ピンのClock波形確認
33.87MHz(2Vp-p)
NG
Q105の15ピンの確認
33.87MHz(2Vp-p)
OK
NG
OK
Q111の2ピンの確認
(33.87MHz)
OK
Q405の2ピンの確認
(33.87MHz)
OK
R491、R574の半田確認
X101と周辺C、R半田付け確認
Q105の半田付け確認
Q502のResetの確認
51ピン(DRVRST) H?
NG
Q102の108ピンの半田付け確認
R129、R570、R648、C638の半田付け確認
OK
終了

3.4 Digital Video 出力の動作確認

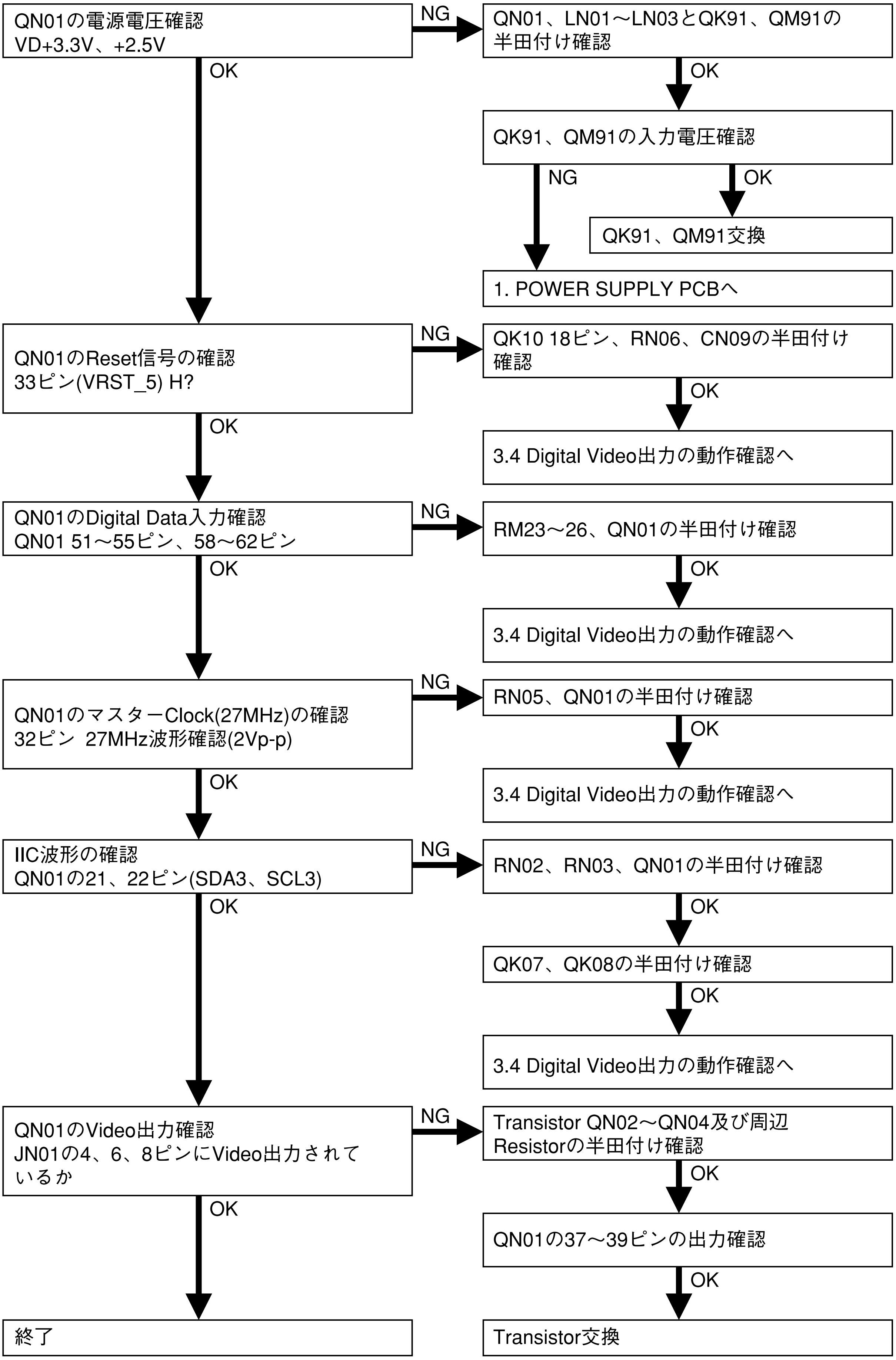

Q101のデジタル信号出力確認
PXD(0〜7)、VCLK(27MHz)の出力OK?
NG
Q101の183〜192ピンとR201、R202、R125の半田付け確認
OK
3.1 Panel uPの動作確認へ
OK
Video用リセット信号の確認
Q109の9ピン H?
NG
Q109の11ピン 電源ON後 L→H?
Q109の8ピン H?
NG
OK
R189、R190、R191、Q108の半田付け確認
OK
Q108交換
R192、Q109の半田付け確認
OK
Q109交換
OK
I/Pコンバータへのデジタル信号入力確認
QK01の2ピン(PDCLK)、7〜14ピン(PD0〜7)、4ピン(PLL_EN)、137ピン(RESET)の確認
NG
QK10、QK11と周辺部品(RK48、RK49、RK54〜RK61、RK30、RK01〜RK04)の半田付け確認
OK
VD+3.3Vの電源確認、LK34半田付け確認
OK
QK10、QK11交換
OK
QK01(CD0040AF)の電圧確認
VD+3.3V VD+2.5V
NG
QK91、QK92周辺の半田付け確認
LK01、LK02の半田付け確認
OK
入力電圧 E+4Vの確認
OK
QK91、QK92交換
OK
Video 2へ


Video 2
IICの波形確認
QK01の135ピン、136ピンの波形(H↔L)
NG
QK07、QK08の1ピン波形確認(H↔L)
OK
NG
OK
RK28、RK29、QK07、QK08の半田付け確認
OK
QK07、QK08交換
Q102の57、58ピン、R160、 R161の半田付け確認
OK
3.1 Panel uPの動作確認へ
QK03(64M SDRAM)とQK01間のアドレス、データバス確認
NG
QK03の電源電圧確認
NG
OK
QK03、RK14～RK26、RK31～RK33の半田付け確認
OK
QK01またはQK03交換
LK03CK30、CK31の半田付け確認
OK
QK01のDigital出力確認
PC【0-9】、PY【0-9】、SD【0-9】、
SDVSYNC、SDHSYNC、SDCLK(27MHz)、
SDCLK2(27MHz)の出力確認 H↔L
NG
QK01の20ピン～67ピンの半田付け確認
OK
QK01またはQK03交換
OK
終了
Video Encoder動作確認Partへ
または HDMI動作確認Partへ

3.5 Video Encoder動作確認(Component、CVBS、Y/C用)

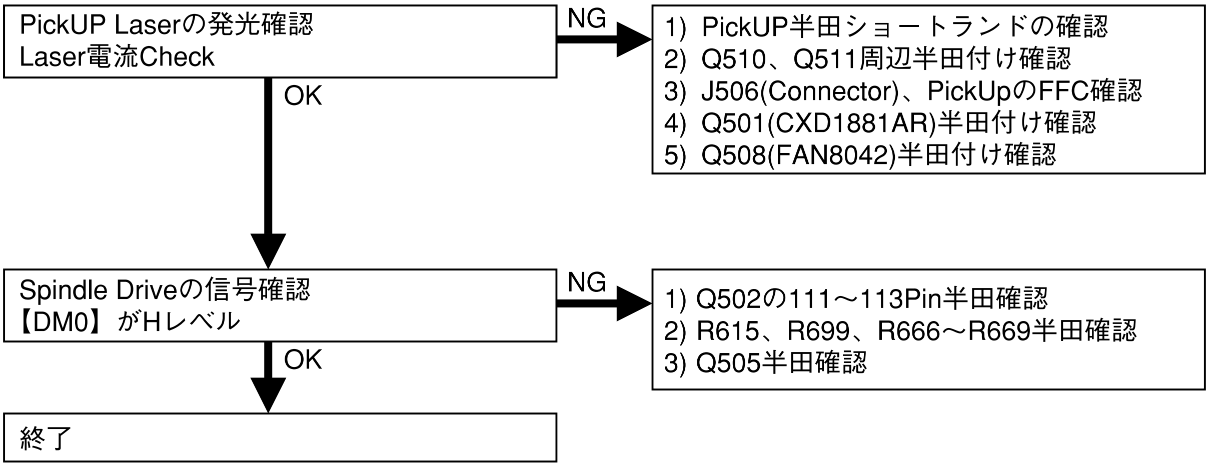

QM01の電源電圧確認
VD+3.3V、+2.5V
NG
QM01、LM01〜LM03とQK91、QM91の
半田付け確認
OK
OK
QK91、QM91の入力電圧確認
NG
OK
QK91、QM91交換
1. POWER SUPPLY PCBへ
QM01のReset信号の確認
33ピン(VRST_5) H?
NG
QK10 18ピン、RM12、CM09の半田付け
確認
OK
3.4 Digital Video出力の動作確認へ
OK
QM01のDigital Data入力確認
QM01 2〜9ピン、12〜18ピン、
26〜30ピン、51〜55ピン、58〜62ピン
NG
RM01〜RM05、RM26〜RM29、QM01の
半田付け確認
OK
3.4 Digital Video出力の動作確認へ
OK
QM01のマスターClock(27MHz)の確認
32ピン 27MHz波形確認(2Vp-p)
NG
RM11、QM01の半田付け確認
OK
3.4 Digital Video出力の動作確認へ
OK
IIC波形の確認
QM01の21、22ピン(SDA3、SCL3)
NG
RM08、RM09、QM01の半田付け確認
OK
QK07、QK08の半田付け確認
OK
3.4 Digital Video出力の動作確認へ
OK
QM01のVideo出力確認
JM01の1、3、5、7、9、11ピンに
Video出力されているか
NG
Transistor QM02〜QM07及び周辺
Resistorの半田付け確認
OK
QM01の37〜39ピン、42〜44ピンの
出力確認
OK
Transistor交換
OK
終了

3.6 Video Encoder 動作確認(RGB 用)


QN01の電源電圧確認
VD+3.3V、+2.5V
NG
QN01、LN01～LN03とQK91、QM91の半田付け確認
OK
QK91、QM91の入力電圧確認
NG
OK
QK91、QM91交換
1. POWER SUPPLY PCBへ
OK
QN01のReset信号の確認
33ピン(VRST_5) H?
NG
QK10 18ピン、RN06、CN09の半田付け確認
OK
3.4 Digital Video出力の動作確認へ
OK
QN01のDigital Data入力確認
QN01 51～55ピン、58～62ピン
NG
RM23～26、QN01の半田付け確認
OK
3.4 Digital Video出力の動作確認へ
OK
QN01のマスターClock(27MHz)の確認
32ピン 27MHz波形確認(2Vp-p)
NG
RN05、QN01の半田付け確認
OK
3.4 Digital Video出力の動作確認へ
OK
IIC波形の確認
QN01の21、22ピン(SDA3、SCL3)
NG
RN02、RN03、QN01の半田付け確認
OK
QK07、QK08の半田付け確認
OK
3.4 Digital Video出力の動作確認へ
OK
QN01のVideo出力確認
JN01の4、6、8ピンにVideo出力されているか
NG
Transistor QN02～QN04及び周辺Resistorの半田付け確認
OK
QN01の37～39ピンの出力確認
OK
Transistor交換
OK
終了

3.7 Disc 再生の確認

3.7.1 Disc が回転しない



PickUP Laserの発光確認
Laser電流Check

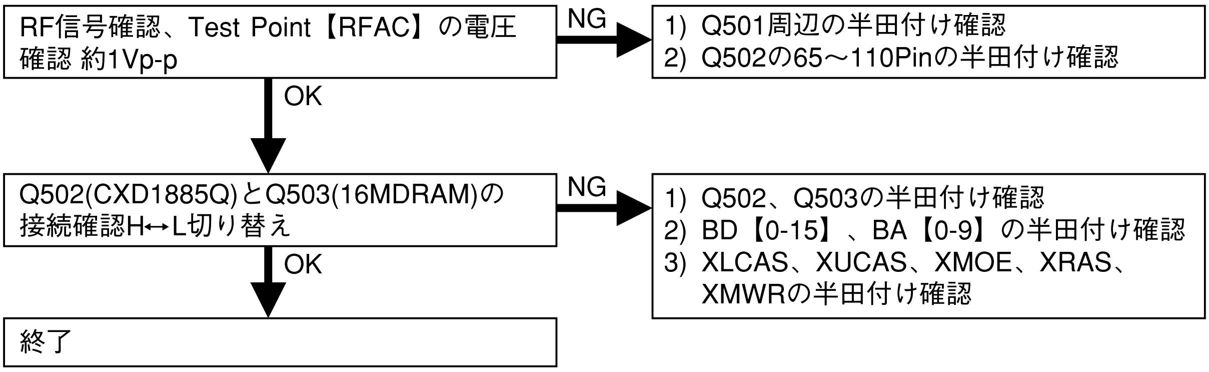
1) PickUP半田ショートランドの確認
2) Q510、Q511周辺半田付け確認
3) J506(Connector)、PickUpのFFC確認
4) Q501(CXD1881AR)半田付け確認
5) Q508(FAN8042)半田付け確認

Spindle Driveの信号確認
【DM0】がHレベル

1) Q502の111～113Pin半田確認
2) R615、R699、R666～R669半田確認
3) Q505半田確認

終了

3.7.2 CD 再生



RF信号確認、Test Point【RFAC】の電圧確認 約1Vp-p

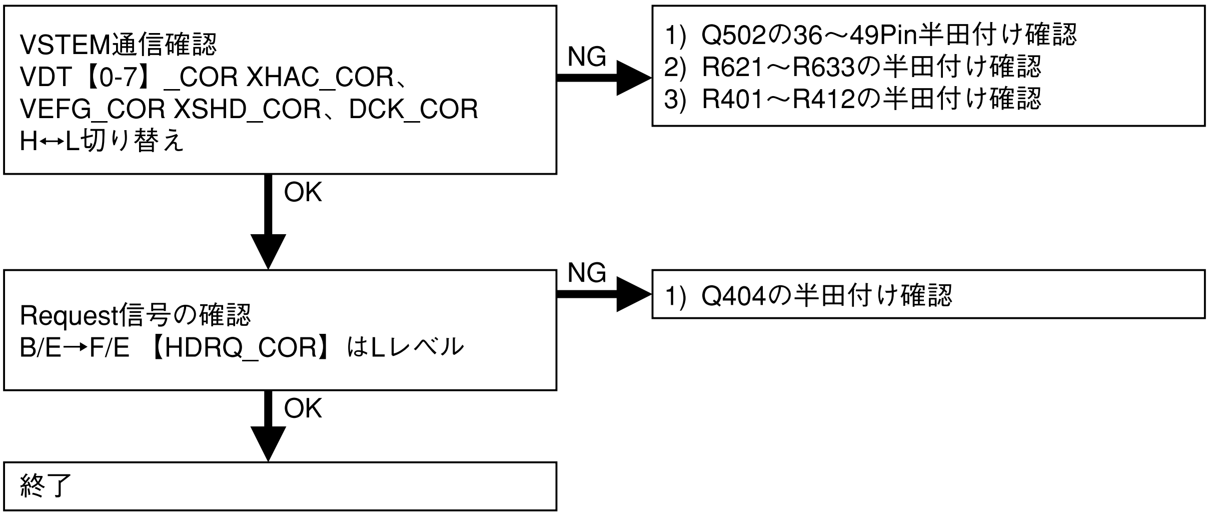
1) Q501周辺の半田付け確認
2) Q502の65～110Pinの半田付け確認

Q502(CXD1885Q)とQ503(16MDRAM)の接続確認H↔L切り替え

1) Q502、Q503の半田付け確認
2) BD【0-15】、BA【0-9】の半田付け確認
3) XLCAS、XUCAS、XMOE、XRAS、XMWRの半田付け確認

終了

3.7.3 DVD 再生



VSTEM通信確認
VDT【0-7】_COR XHAC_COR、VEFG_COR XSHD_COR、DCK_COR
H↔L切り替え

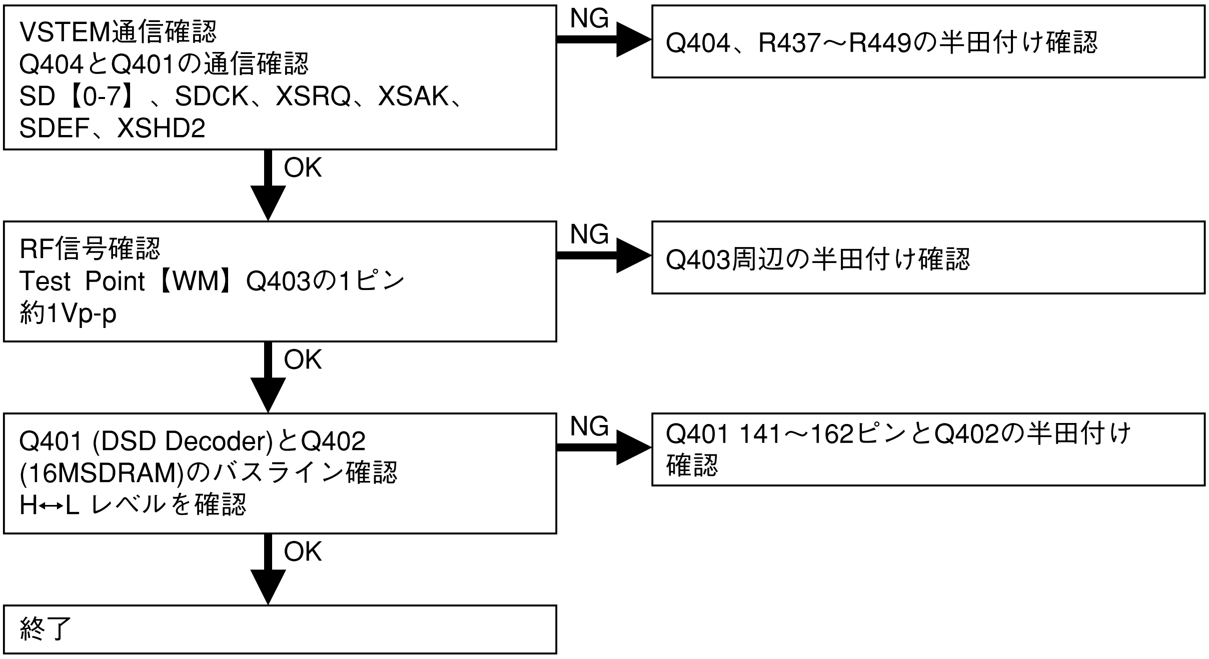
1) Q502の36～49Pin半田付け確認
2) R621～R633の半田付け確認
3) R401～R412の半田付け確認

Request信号の確認
B/E→F/E 【HDRQ_COR】はLレベル

1) Q404の半田付け確認

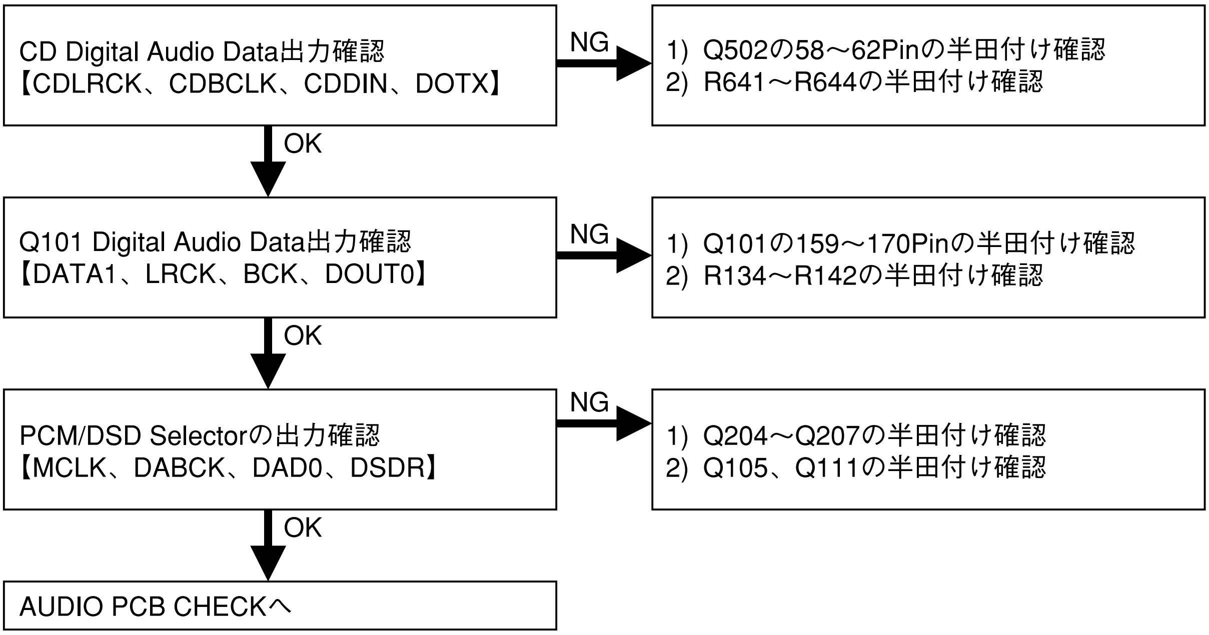
終了

3.7.4 Super Audio CD 再生

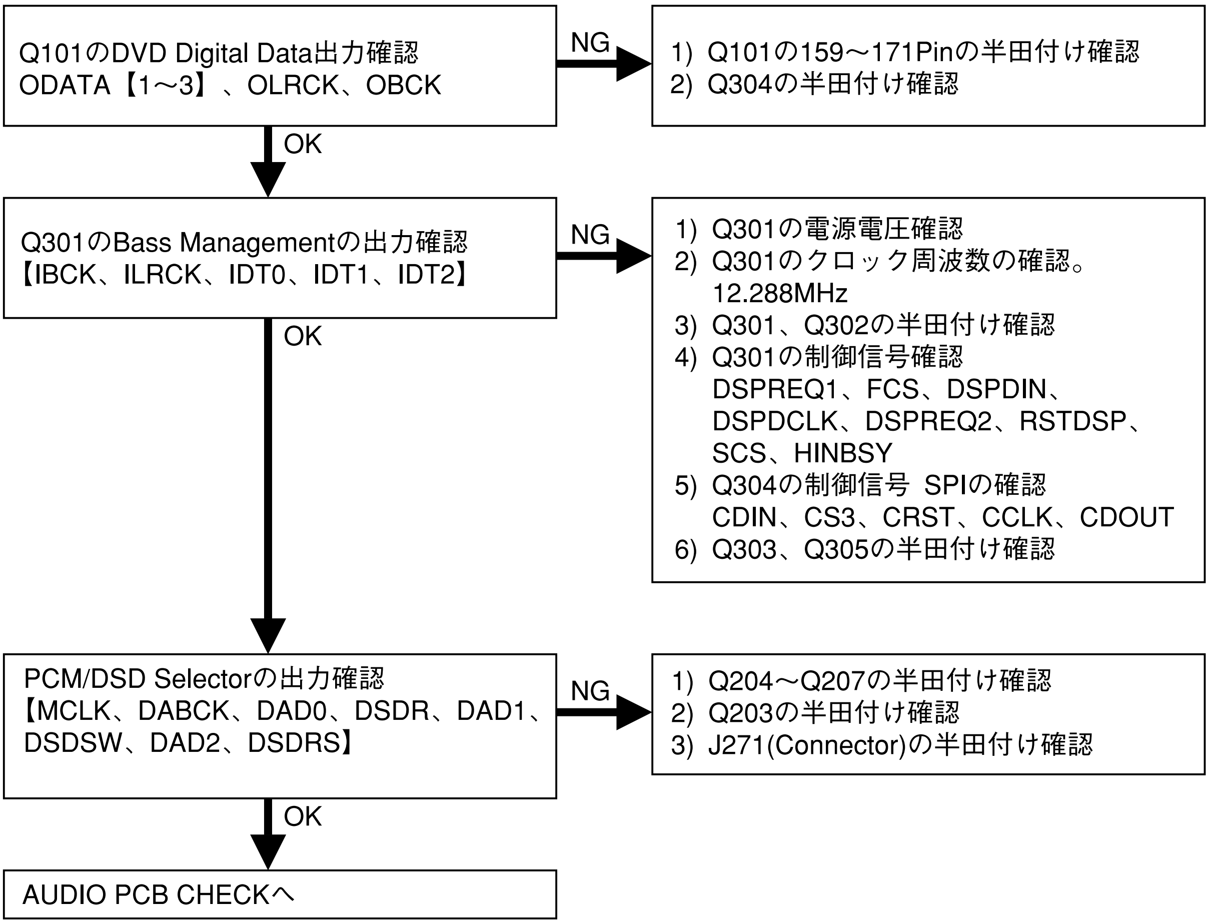

VSTEM通信確認
Q404とQ401の通信確認
SD【0-7】、SDCK、XSRQ、XSAK、
SDEF、XSHD2
NG
Q404、R437～R449の半田付け確認
OK
RF信号確認
Test Point【WM】Q403の1ピン
約1Vp-p
NG
Q403周辺の半田付け確認
OK
Q401 (DSD Decoder)とQ402
(16MSDRAM)のバスライン確認
H↔L レベルを確認
NG
Q401 141～162ピンとQ402の半田付け
確認
OK
終了

3.8 No sound or noisy

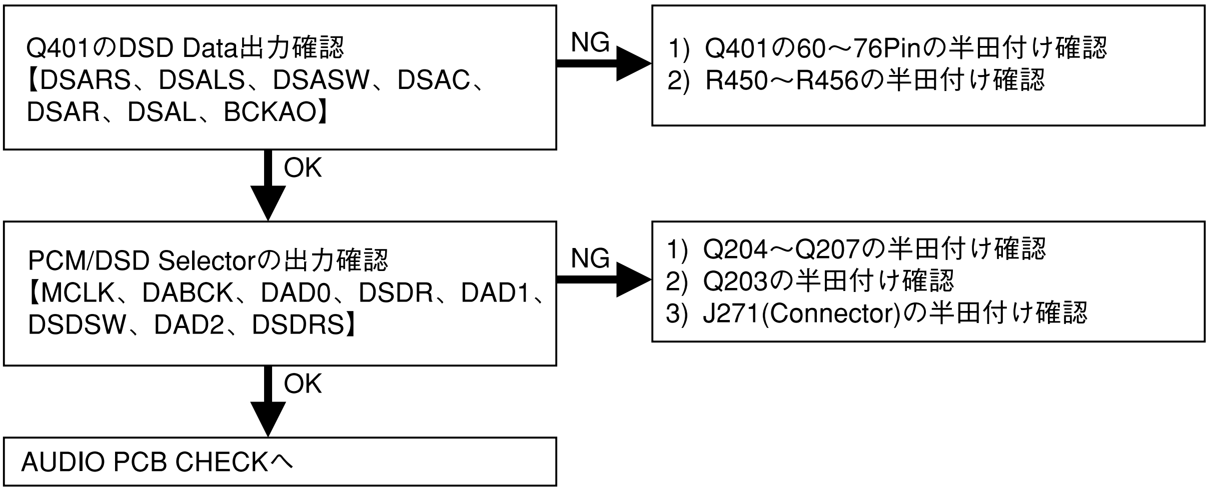
3.8.1 CD playback


CD Digital Audio Data出力確認
【CDLRCK、CDBCLK、CDDIN、DOTX】
NG
1) Q502の58～62Pinの半田付け確認
2) R641～R644の半田付け確認
OK
Q101 Digital Audio Data出力確認
【DATA1、LRCK、BCK、DOUT0】
NG
1) Q101の159～170Pinの半田付け確認
2) R134～R142の半田付け確認
OK
PCM/DSD Selectorの出力確認
【MCLK、DABCK、DAD0、DSDR】
NG
1) Q204～Q207の半田付け確認
2) Q105、Q111の半田付け確認
OK
AUDIO PCB CHECKへ

3.8.2 DVD-Video/Audio

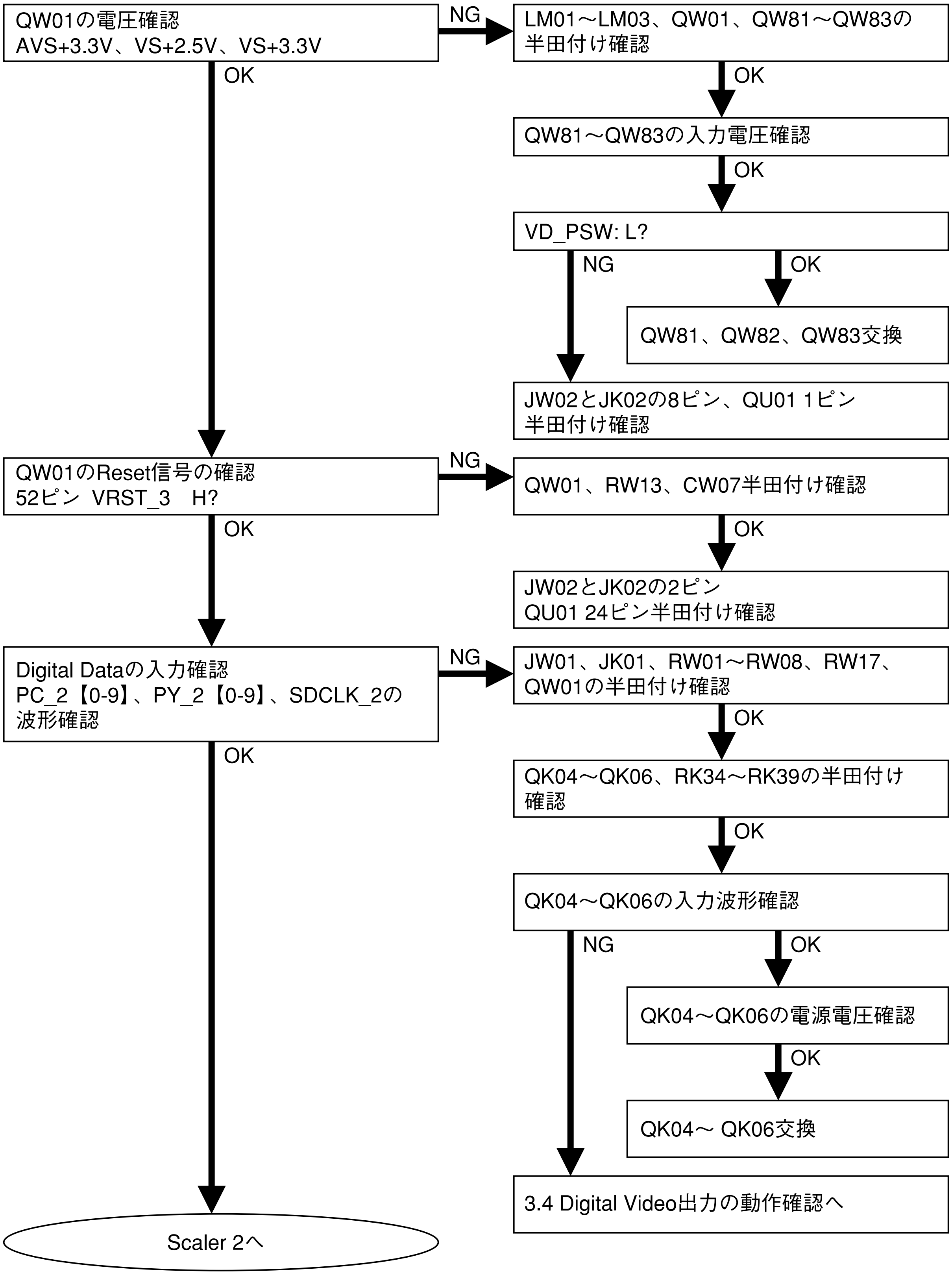

Q101のDVD Digital Data出力確認
ODATA【1～3】、OLRCK、OBCK
NG
1) Q101の159～171Pinの半田付け確認
2) Q304の半田付け確認
OK
Q301のBass Managementの出力確認
【IBCK、ILRCK、IDT0、IDT1、IDT2】
NG
1) Q301の電源電圧確認
2) Q301のクロック周波数の確認。
12.288MHz
3) Q301、Q302の半田付け確認
4) Q301の制御信号確認
DSPREQ1、FCS、DSPDIN、
DSPDCLK、DSPREQ2、RSTDSP、
SCS、HINBSY
5) Q304の制御信号 SPIの確認
CDIN、CS3、CRST、CCLK、CDOUT
6) Q303、Q305の半田付け確認
OK
PCM/DSD Selectorの出力確認
【MCLK、DABCK、DAD0、DSDR、DAD1、
DSDSW、DAD2、DSDRS】
NG
1) Q204～Q207の半田付け確認
2) Q203の半田付け確認
3) J271(Connector)の半田付け確認
OK
AUDIO PCB CHECKへ

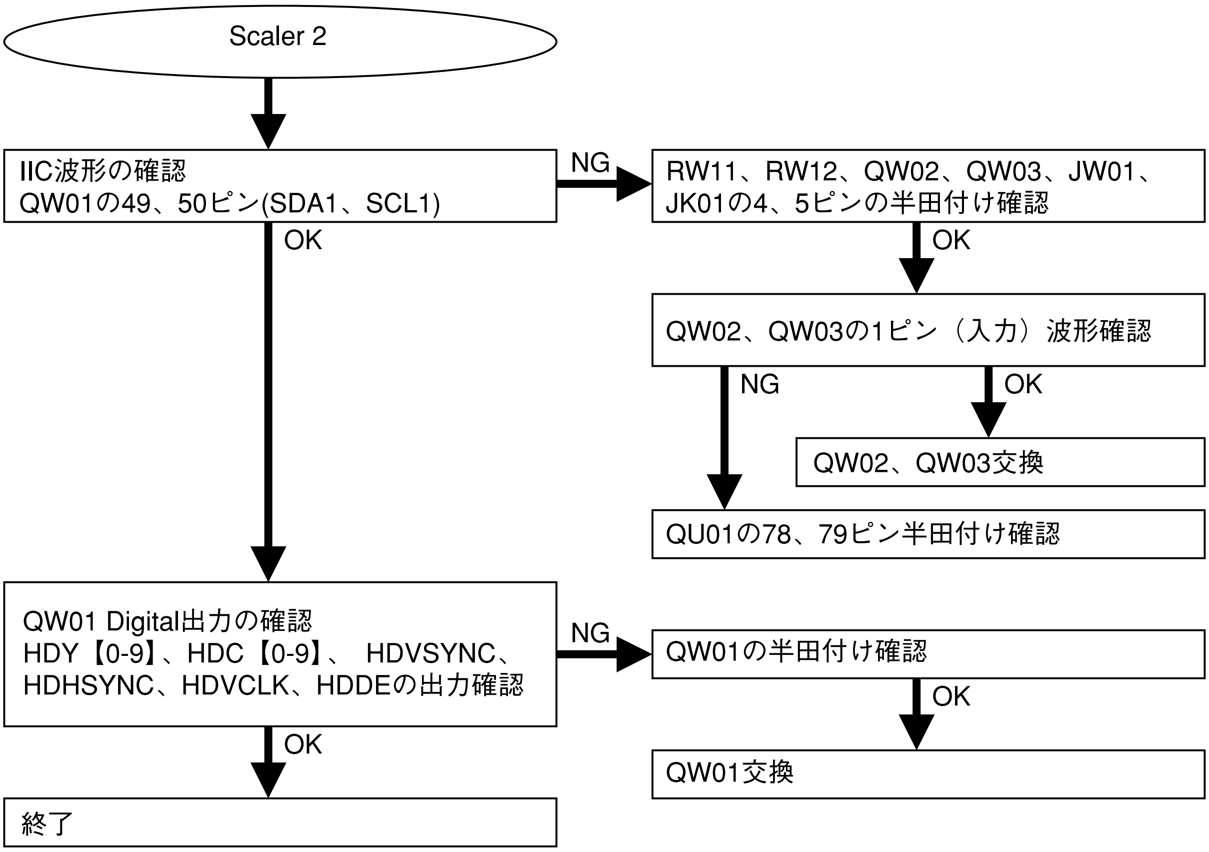
3.8.3 Super Audio CD


Q401のDSD Data出力確認
【DSARS、DSALS、DSASW、DSAC、
DSAR、DSAL、BCKAO】
NG
1) Q401の60～76Pinの半田付け確認
2) R450～R456の半田付け確認
OK
PCM/DSD Selectorの出力確認
【MCLK、DABCK、DAD0、DSDR、DAD1、
DSDSW、DAD2、DSDRS】
NG
1) Q204～Q207の半田付け確認
2) Q203の半田付け確認
3) J271(Connector)の半田付け確認
OK
AUDIO PCB CHECKへ

4. HDMI PCB (PT01)

4.1 Scaler 動作確認

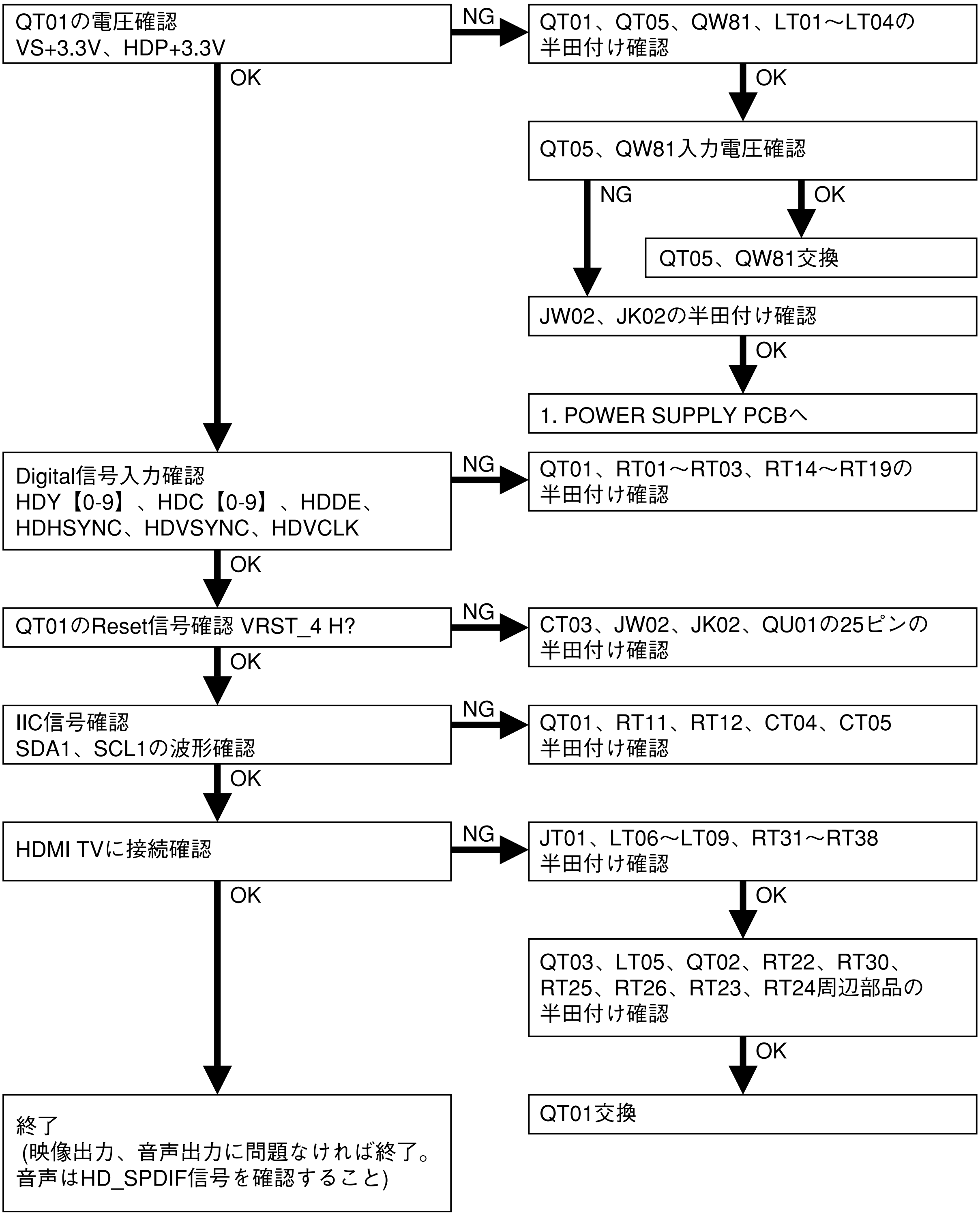

QW01の電圧確認
AVS+3.3V、VS+2.5V、VS+3.3V
NG
LM01～LM03、QW01、QW81～QW83の半田付け確認
OK
QW81～QW83の入力電圧確認
OK
VD_PSW: L?
NG
OK
QW81、QW82、QW83交換
JW02とJK02の8ピン、QU01 1ピン半田付け確認
OK
QW01のReset信号の確認
52ピン VRST_3 H?
NG
QW01、RW13、CW07半田付け確認
OK
JW02とJK02の2ピン
QU01 24ピン半田付け確認
OK
Digital Dataの入力確認
PC_2【0-9】、PY_2【0-9】、SDCLK_2の波形確認
NG
JW01、JK01、RW01～RW08、RW17、QW01の半田付け確認
OK
QK04～QK06、RK34～RK39の半田付け確認
OK
QK04～QK06の入力波形確認
NG
OK
QK04～QK06の電源電圧確認
OK
QK04～ QK06交換
3.4 Digital Video出力の動作確認へ
OK
Scaler 2へ


Scaler 2
IIC波形の確認
QW01の49、50ピン(SDA1、SCL1)
NG
RW11、RW12、QW02、QW03、JW01、
JK01の4、5ピンの半田付け確認
OK
OK
QW02、QW03の1ピン（入力）波形確認
NG
OK
QW02、QW03交換
QU01の78、79ピン半田付け確認
QW01 Digital出力の確認
HDY【0-9】、HDC【0-9】、 HDVSYNC、
HDHSYNC、HDVCLK、HDDEの出力確認
NG
QW01の半田付け確認
OK
QW01交換
OK
終了

Notice

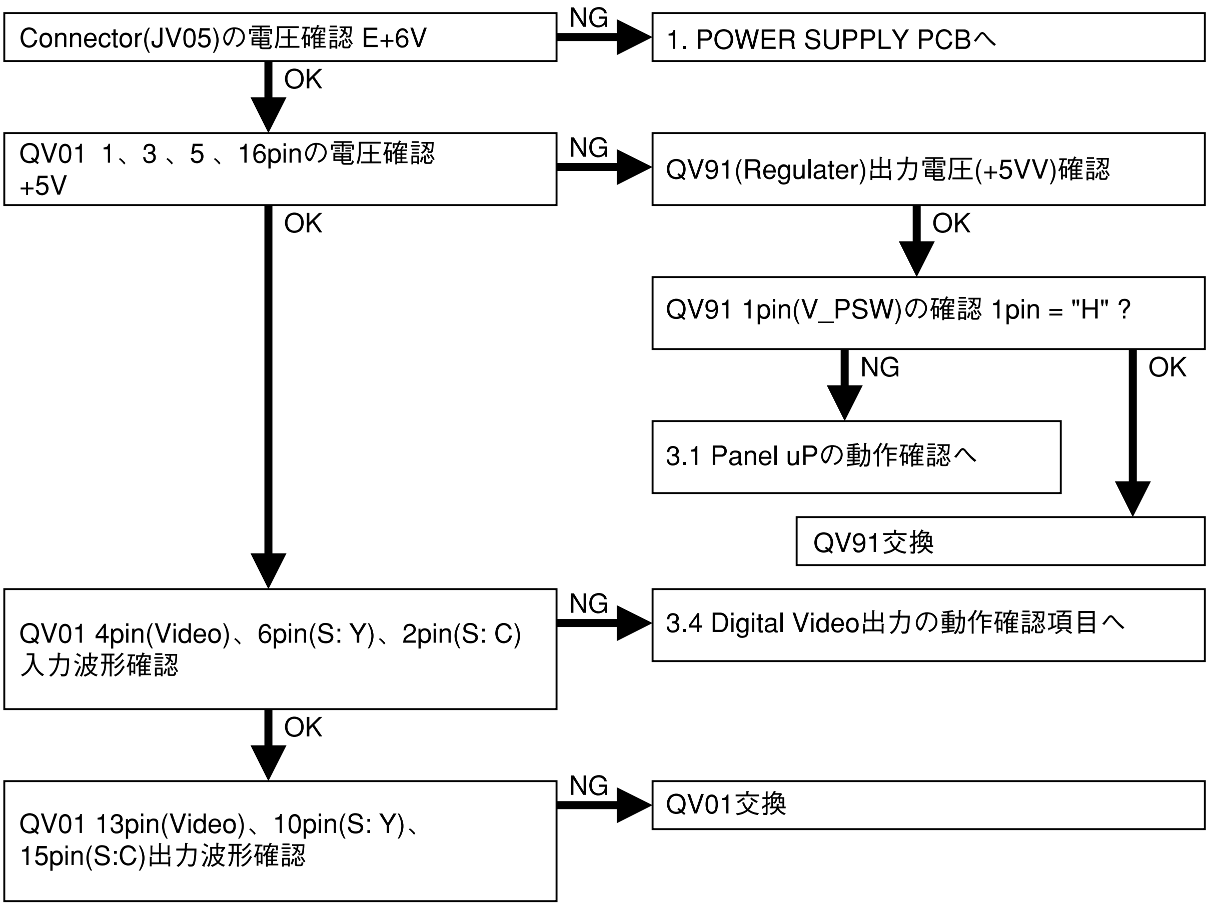
OUTPUT Format	Frequency of HDVCLK Signal
720P	74.5MHz
1080i	74.5MHz
480P	27MHz
576P	27MHz
VGA	25MHz

4.2 HDMI Driver 動作確認

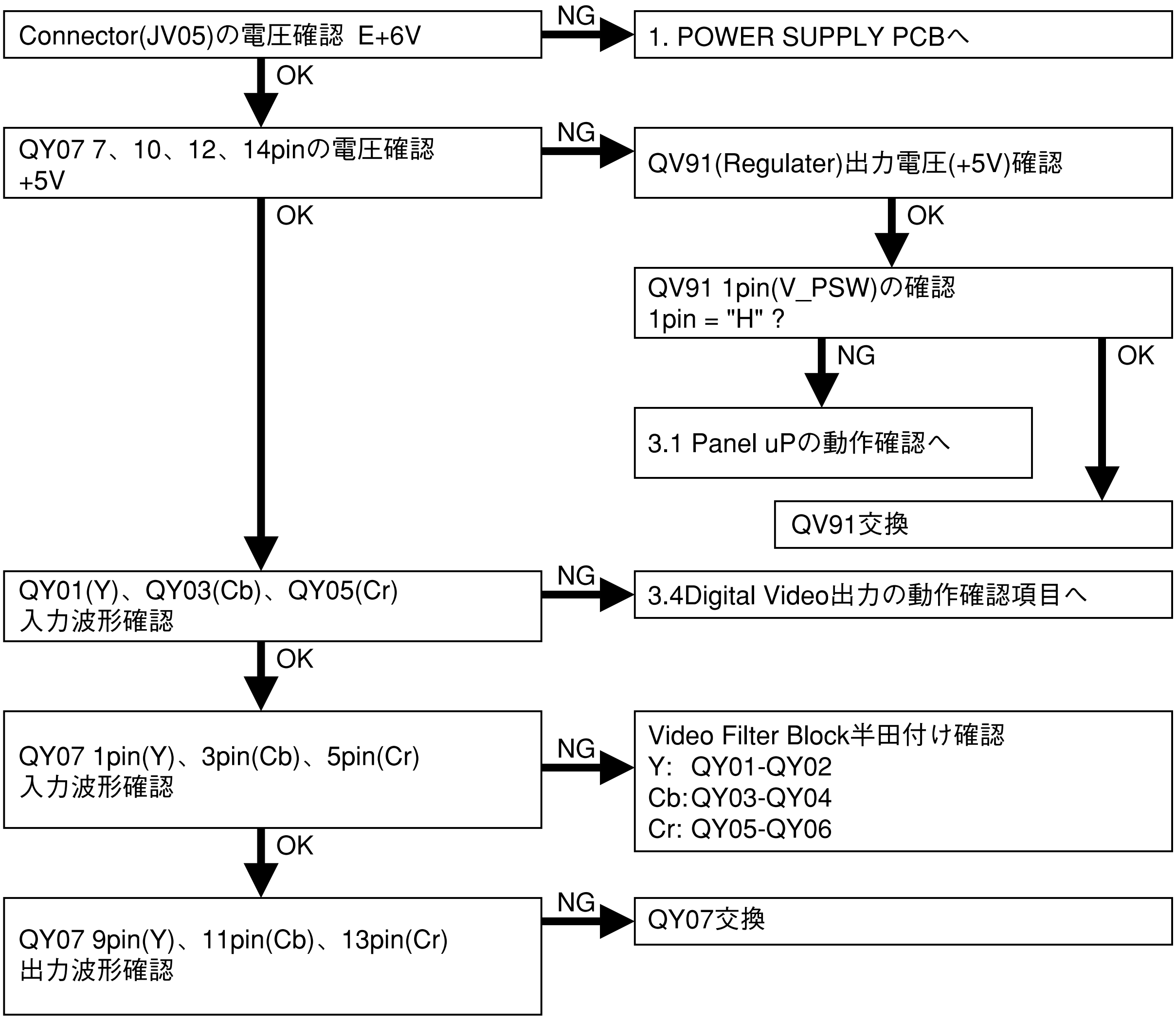

QT01の電圧確認
VS+3.3V、HDP+3.3V
NG
QT01、QT05、QW81、LT01～LT04の
半田付け確認
OK
QT05、QW81入力電圧確認
NG
OK
QT05、QW81交換
JW02、JK02の半田付け確認
OK
1. POWER SUPPLY PCBへ
OK
Digital信号入力確認
HDY【0-9】、HDC【0-9】、HDDE、
HDHSYNC、HDVSYNC、HDVCLK
NG
QT01、RT01～RT03、RT14～RT19の
半田付け確認
OK
QT01のReset信号確認 VRST_4 H?
NG
CT03、JW02、JK02、QU01の25ピンの
半田付け確認
OK
IIC信号確認
SDA1、SCL1の波形確認
NG
QT01、RT11、RT12、CT04、CT05
半田付け確認
OK
HDMI TVに接続確認
NG
JT01、LT06～LT09、RT31～RT38
半田付け確認
OK
QT03、LT05、QT02、RT22、RT30、
RT25、RT26、RT23、RT24周辺部品の
半田付け確認
OK
QT01交換
OK
終了
(映像出力、音声出力に問題なければ終了。
音声はHD_SPDIF信号を確認すること)

5. Analog Video出力確認

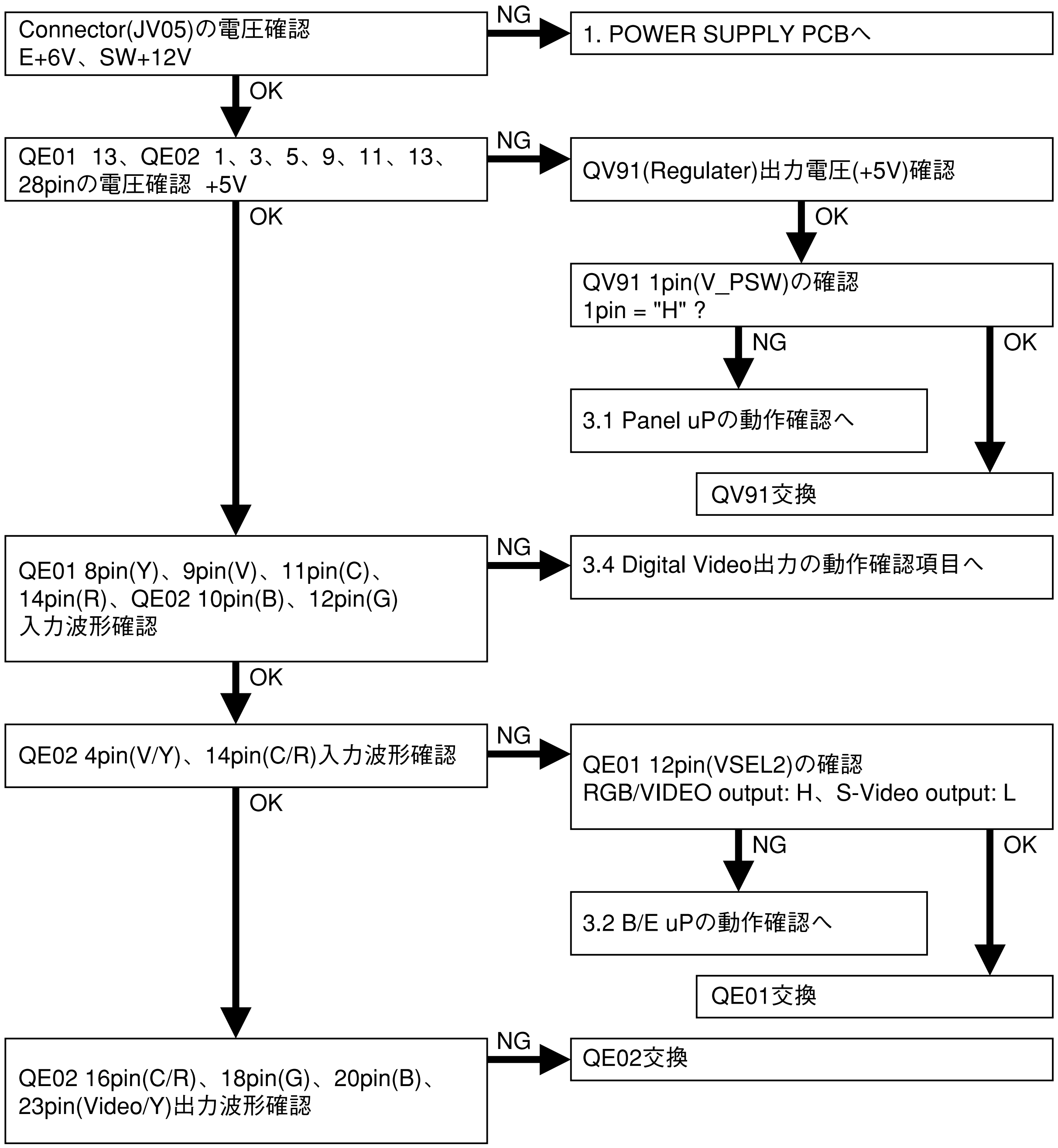
5.1 VIDEO(Composite)、S 端子出力出ず


Connector(JV05)の電圧確認 E+6V
NG
1. POWER SUPPLY PCBへ
OK
QV01 1、3 、5 、16pinの電圧確認 +5V
NG
QV91(Regulater)出力電圧(+5VV)確認
OK
OK
QV91 1pin(V_PSW)の確認 1pin = "H" ?
NG
OK
3.1 Panel uPの動作確認へ
QV91交換
QV01 4pin(Video)、6pin(S: Y)、2pin(S: C) 入力波形確認
NG
3.4 Digital Video出力の動作確認項目へ
OK
QV01 13pin(Video)、10pin(S: Y)、15pin(S:C)出力波形確認
NG
QV01交換

5.2 Component出力出ず

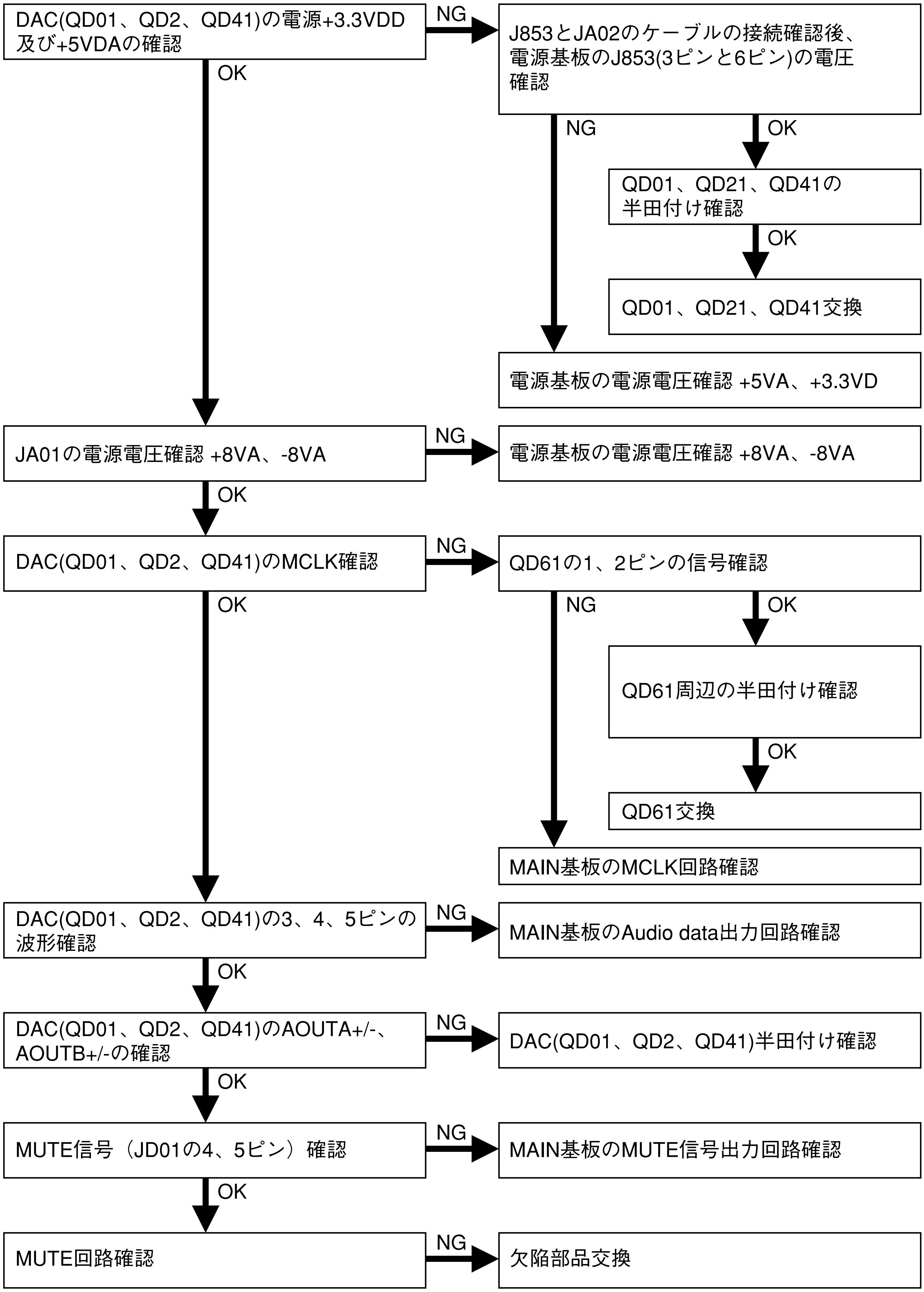

Connector(JV05)の電圧確認 E+6V
NG
1. POWER SUPPLY PCBへ
OK
QY07 7、10、12、14pinの電圧確認 +5V
NG
QV91(Regulater)出力電圧(+5V)確認
OK
QV91 1pin(V_PSW)の確認 1pin = "H" ?
NG
3.1 Panel uPの動作確認へ
OK
QV91交換
OK
QY01(Y)、QY03(Cb)、QY05(Cr) 入力波形確認
NG
3.4Digital Video出力の動作確認項目へ
OK
QY07 1pin(Y)、3pin(Cb)、5pin(Cr) 入力波形確認
NG
Video Filter Block半田付け確認
Y: QY01-QY02
Cb:QY03-QY04
Cr: QY05-QY06
OK
QY07 9pin(Y)、11pin(Cb)、13pin(Cr) 出力波形確認
NG
QY07交換

5.3 SCART 出力出ず


Connector(JV05)の電圧確認
E+6V、SW+12V
NG
1. POWER SUPPLY PCBへ
OK
QE01 13、QE02 1、3、5、9、11、13、28pinの電圧確認 +5V
NG
QV91(Regulater)出力電圧(+5V)確認
OK
OK
QV91 1pin(V_PSW)の確認
1pin = "H" ?
NG
OK
3.1 Panel uPの動作確認へ
QV91交換
QE01 8pin(Y)、9pin(V)、11pin(C)、14pin(R)、QE02 10pin(B)、12pin(G)
入力波形確認
NG
3.4 Digital Video出力の動作確認項目へ
OK
QE02 4pin(V/Y)、14pin(C/R)入力波形確認
NG
QE01 12pin(VSEL2)の確認
RGB/VIDEO output: H、S-Video output: L
OK
NG
OK
3.2 B/E uPの動作確認へ
QE01交換
QE02 16pin(C/R)、18pin(G)、20pin(B)、
23pin(Video/Y)出力波形確認
NG
QE02交換

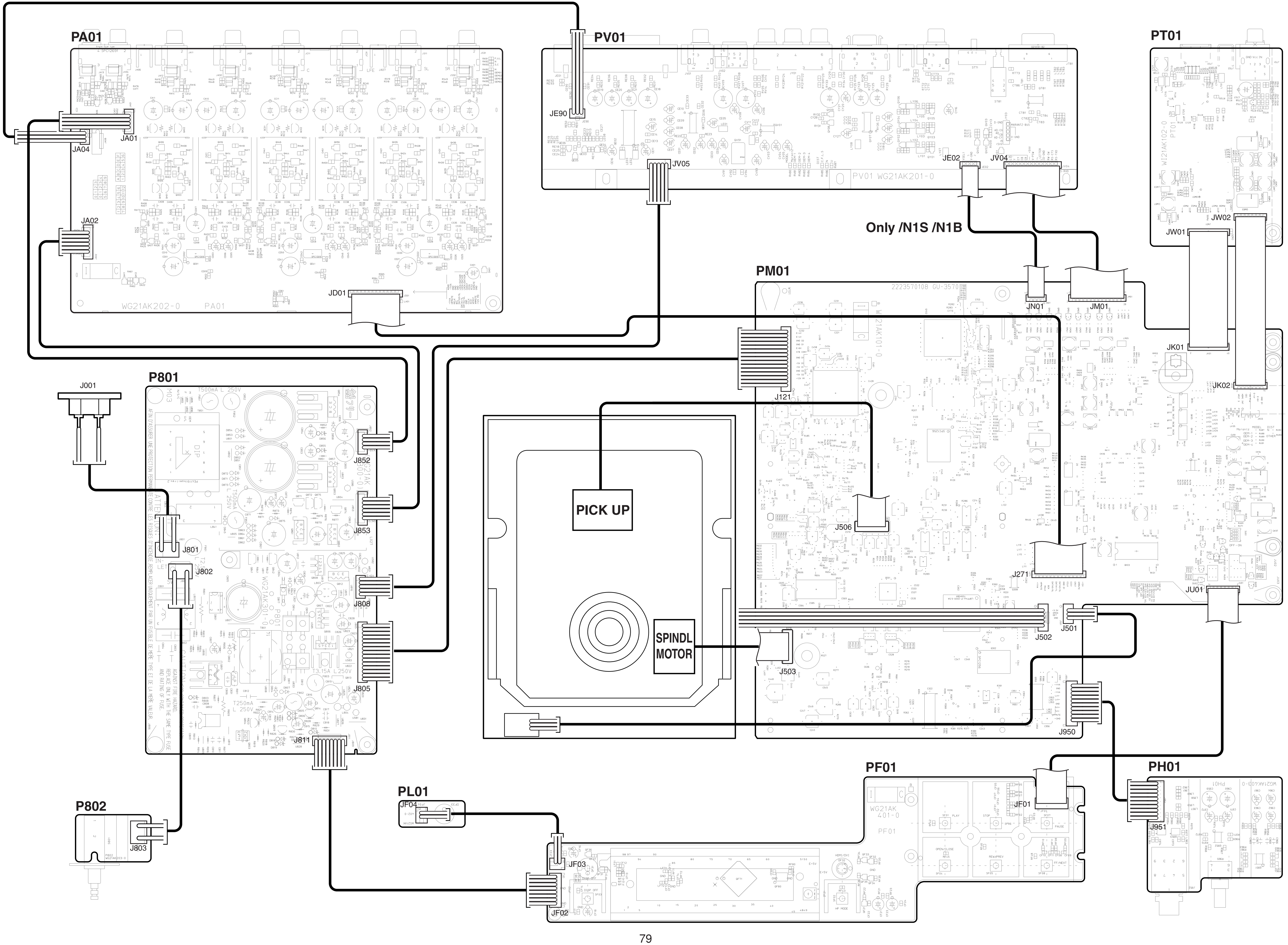
6. AUDIO PCB (PV01)

6.1 音が出ない

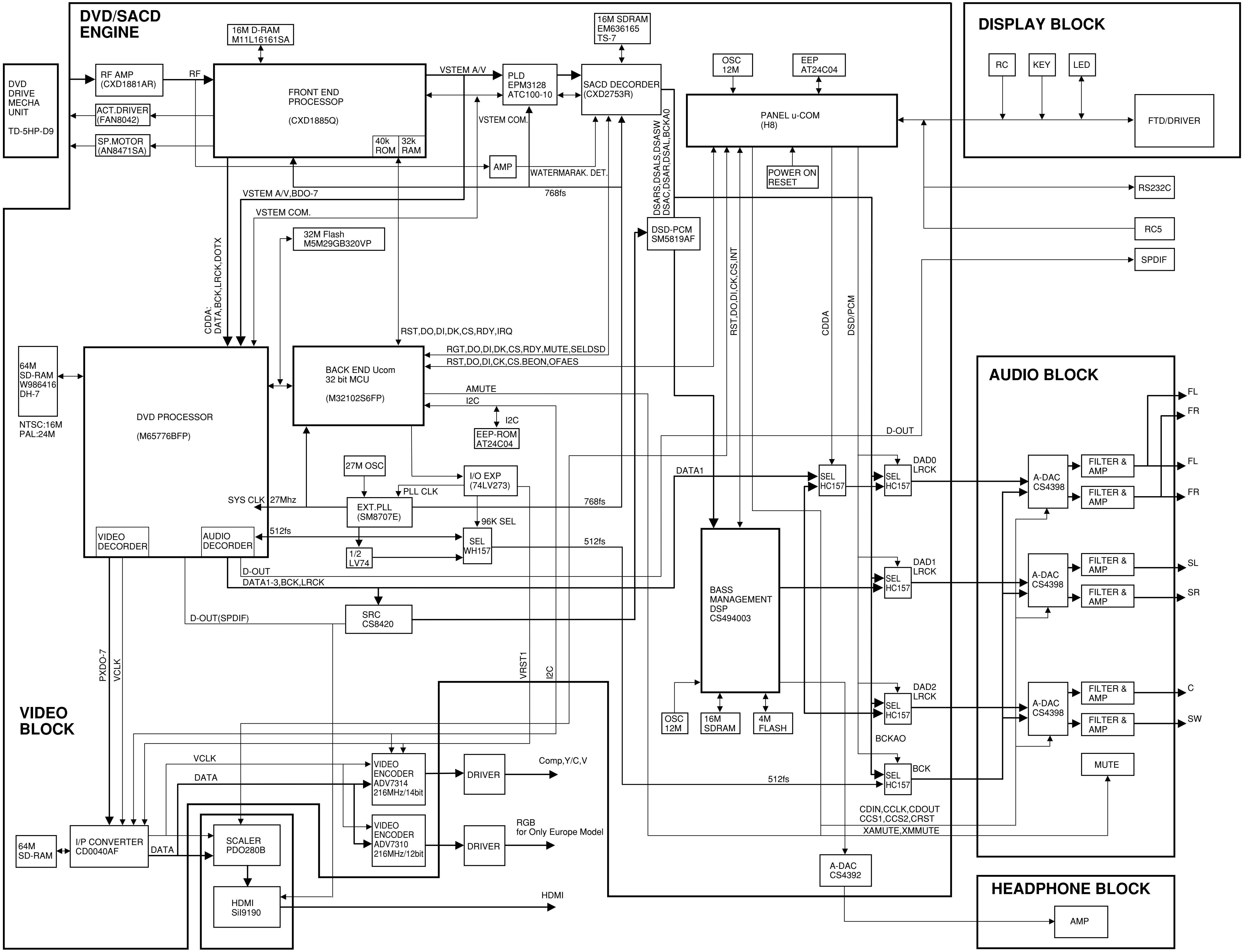

DAC(QD01、QD2、QD41)の電源+3.3VDD及び+5VDAの確認
NG
J853とJA02のケーブルの接続確認後、電源基板のJ853(3ピンと6ピン)の電圧確認
NG
OK
QD01、QD21、QD41の半田付け確認
OK
QD01、QD21、QD41交換
電源基板の電源電圧確認 +5VA、+3.3VD
OK
JA01の電源電圧確認 +8VA、-8VA
NG
電源基板の電源電圧確認 +8VA、-8VA
OK
DAC(QD01、QD2、QD41)のMCLK確認
NG
QD61の1、2ピンの信号確認
NG
OK
QD61周辺の半田付け確認
OK
QD61交換
MAIN基板のMCLK回路確認
OK
DAC(QD01、QD2、QD41)の3、4、5ピンの波形確認
NG
MAIN基板のAudio data出力回路確認
OK
DAC(QD01、QD2、QD41)のAOUTA+/-、AOUTB+/-の確認
NG
DAC(QD01、QD2、QD41)半田付け確認
OK
MUTE信号（JD01の4、5ピン）確認
NG
MAIN基板のMUTE信号出力回路確認
OK
MUTE回路確認
NG
欠陥部品交換

11. WIRING DIAGRAM

Only /N1S /N1B

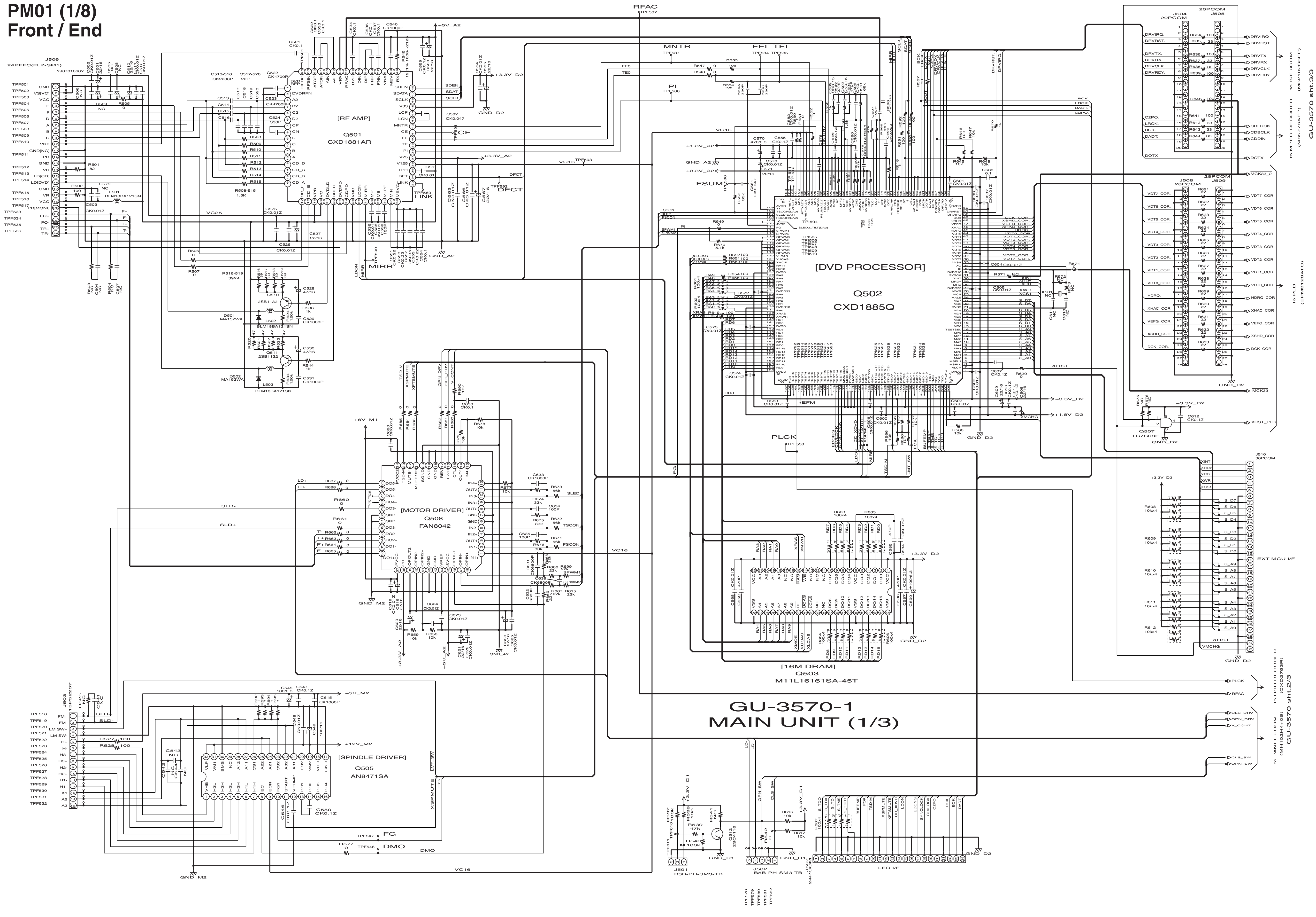

PA01
PV01
PT01
JE90
JA01
JA04
JV05
JE02
JV04
Only /N1S /N1B
JW02
JW01
JA02
PM01
JD01
JN01
JM01
JK01
P801
J001
J121
JK02
J852
PICK UP
J506
J853
J801
J802
J271
JU01
J808
SPINDL
MOTOR
J501
J502
J503
J805
J950
J811
PF01
PH01
PL01
JF04
JF01
P802
J951
J803
JF03
JF02

12. BLOCK DIAGRAM

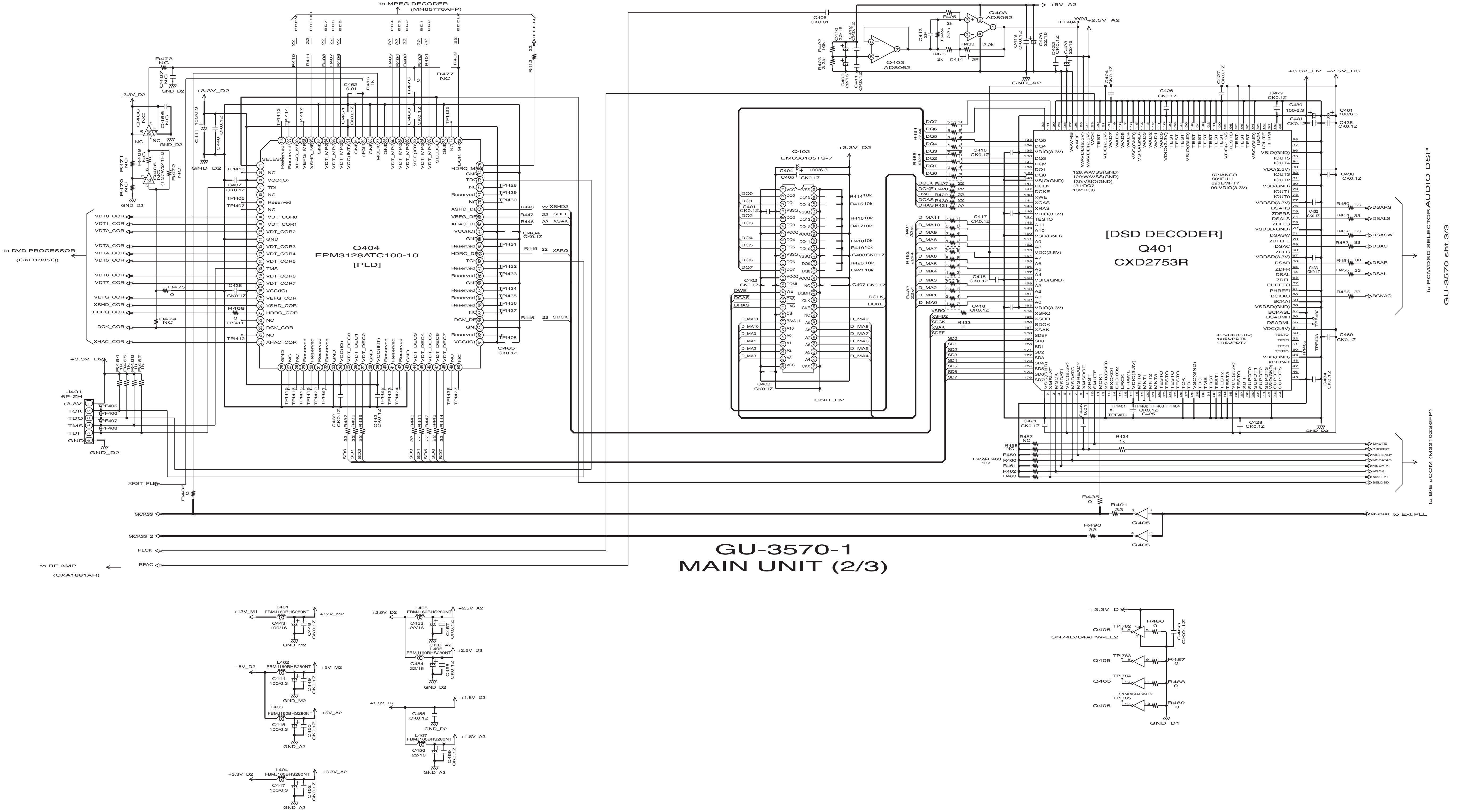

DVD/SACD ENGINE
16M D-RAM M11L16161SA
16M SDRAM EM636165 TS-7
DISPLAY BLOCK
DVD DRIVE MECHA UNIT
TD-5HP-D9
RF AMP (CXD1881AR)
RF
FRONT END PROCESSOP
(CXD1885Q)
40k ROM
32k RAM
VSTEM A/V
PLD EPM3128 ATC100-10
SACD DECORDER (CXD2753R)
OSC 12M
EEP AT24C04
PANEL u-COM (H8)
RC
KEY
LED
FTD/DRIVER
ACT.DRIVER (FAN8042)
SP.MOTOR (AN8471SA)
VSTEM COM.
AMP
WATERMARAK. DET.
POWER ON RESET
VSTEM A/V,BDO-7
768fs
DSARS,DSALS,DSASW
DSAC,DSAR,DSAL,BCKA0
RS232C
VSTEM COM.
32M Flash M5M29GB320VP
DSD-PCM SM5819AF
RC5
SPDIF
CDDA: DATA,BCK,LRCK,DOTX
RST,DO,DI,DK,CS,INT
CDDA
DSD/PCM
RST,DO,DI,CK,CS,RDY,IRQ
64M SD-RAM W986416 DH-7
NTSC:16M PAL:24M
DVD PROCESSOR (M65776BFP)
RGT,DO,DI,DK,CS,RDY,MUTE,SELDSD
RST,DO,DI,CK,CS.BEON,OFAES
BACK END Ucom 32 bit MCU (M32102S6FP)
AMUTE
I2C
I2C
EEP-ROM AT24C04
AUDIO BLOCK
D-OUT
27M OSC
I/O EXP (74LV273)
PLL CLK
SYS CLK
27Mhz
EXT.PLL (SM8707E)
768fs
DATA1
DAD0 LRCK
SEL HC157
SEL HC157
A-DAC CS4398
FILTER & AMP
FILTER & AMP
FL
FR
FL
FR
VIDEO DECORDER
AUDIO DECORDER
512fs
96K SEL
SEL WH157
512fs
1/2 LV74
D-OUT
DATA1-3,BCK,LRCK
BASS MANAGEMENT DSP CS494003
DAD1 LRCK
SEL HC157
A-DAC CS4398
FILTER & AMP
FILTER & AMP
SL
SR
SRC CS8420
D-OUT(SPDIF)
PXDO-7
VCLK
VRST1
I2C
VIDEO BLOCK
DAD2 LRCK
SEL HC157
A-DAC CS4398
FILTER & AMP
FILTER & AMP
C
SW
OSC 12M
16M SDRAM
4M FLASH
BCKAO
MUTE
VCLK
VIDEO ENCODER ADV7314 216MHz/14bit
DRIVER
Comp,Y/C,V
DATA
BCK
SEL HC157
512fs
CDIN,CCLK,CDOUT
CCS1,CCS2,CRST
XAMUTE,XMMUTE
VIDEO ENCODER ADV7310 216MHz/12bit
DRIVER
RGB
for Only Europe Model
64M SD-RAM
I/P CONVERTER CD0040AF
DATA
SCALER PDO280B
A-DAC CS4392
HDMI SiI9190
HDMI
HEADPHONE BLOCK
AMP

13. SCHEMATIC DIAGRAM

PM01 (1/8)
Front / End

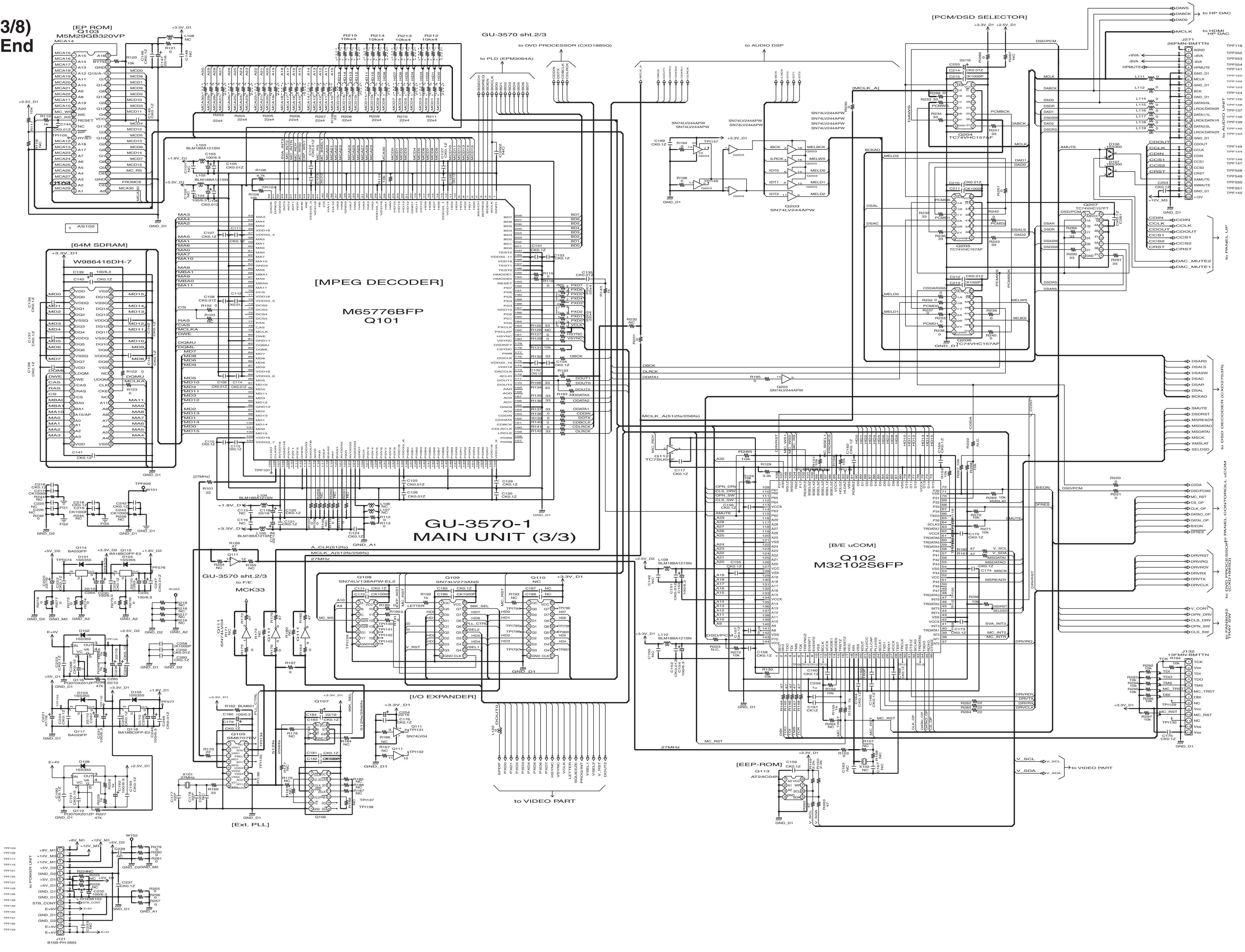

RFAC
J506
24PFFC(FLZ-SM1)
[RF AMP]
Q501
CXD1881AR
MNTR
FEI TEI
PI
FSUM
CE
DFCT
LINK
MIRR
[DVD PROCESSOR]
Q502
CXD1885Q
J504
20PCOM
J505
20PCOM
to B/E uCOM
(M32125GFP)
to MPEG DECODER
(M65776AFP)
GU-3570 sht.3/3
J508
28PCOM
J509
28PCOM
to PLD
(EPM3128ATC)
GU-3570 sht.2/3
Q507
TC7S08F
XRST_PLD
J510
30PCOM
EXT MCU I/F
[MOTOR DRIVER]
Q508
FAN8042
[16M DRAM]
Q503
M11L16161SA-45T
PLCK
EFM
GU-3570-1
MAIN UNIT (1/3)
to DSD DECODER
(CXD2753R)
to PANEL uCOM
(MN102H4+0B)
J503
14PCOM
[SPINDLE DRIVER]
Q505
AN8471SA
FG
DMO
J501
B3B-PH-SM3-TB
J502
B5B-PH-SM3-TB
J507
24PCOM
LED I/F
Q512
2SC4116
Q510
2SB1132
Q511
2SB1132
D501
MA152WA
D502
MA152WA
+5V_A2
+3.3V_D2
+3.3V_A2
+1.8V_A2
+1.8V_D2
+8V_M1
+5V_M2
+12V_M2
+3.3V_D1
GND_A2
GND_D2
GND_M2
GND_D1
VC16
VC25

PM01 (2/8)
SACD



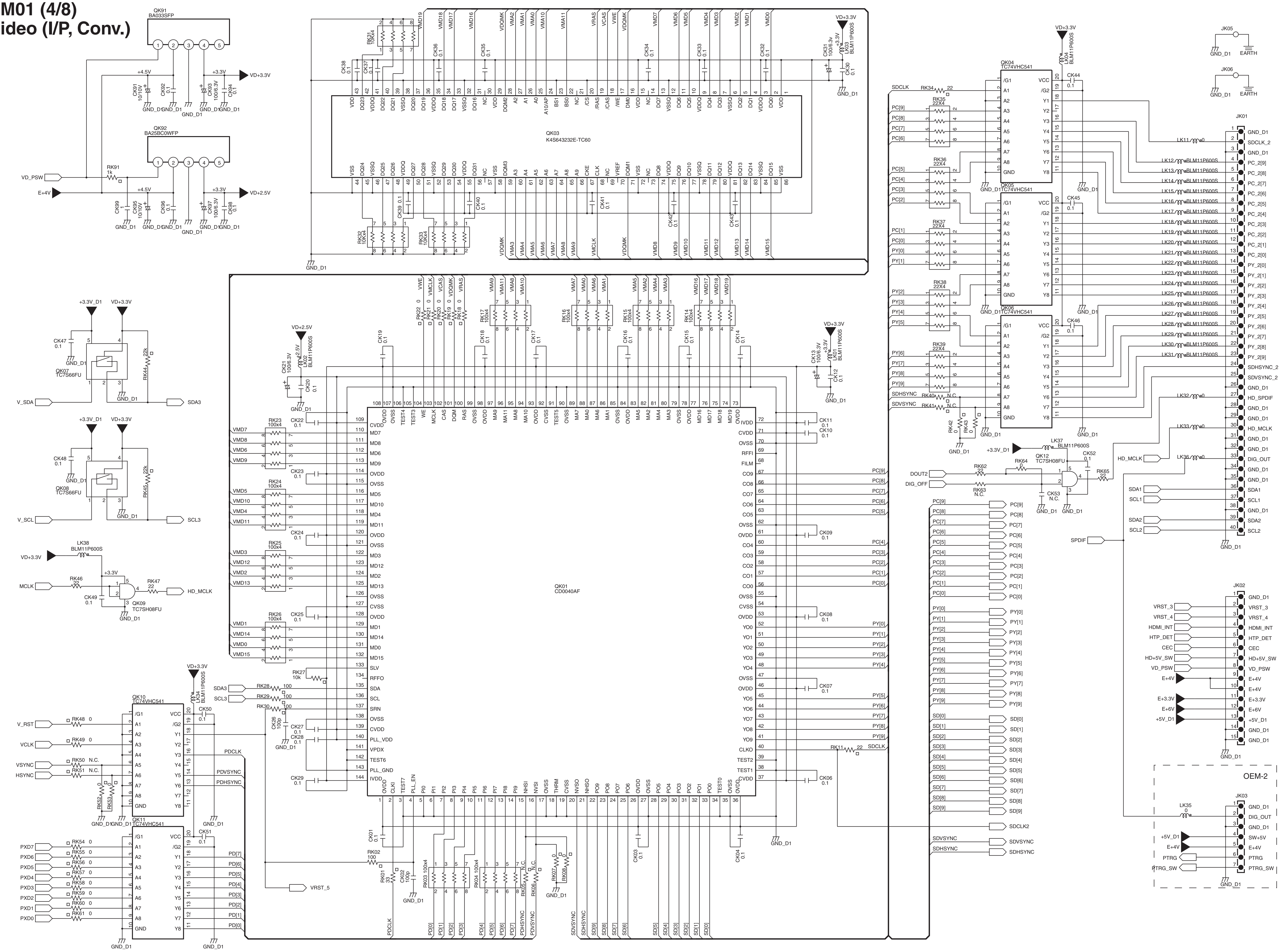
GU-3570 sht.3/3
to MPEG DECODER
(MN65776AFP)
Q404
EPM3128ATC100-10
[PLD]
Q402
EM636165TS-7
[DSD DECODER]
Q401
CXD2753R
Q403
AD8062
+5V_A2
+2.5V_A2
+3.3V_D2
+2.5V_D3
GND_D2
GND_A2
to DVD PROCESSOR
(CXD1885Q)
J401
6P-ZH
+3.3V
TCK
TDO
TMS
TDI
GND
XRST_PLD
MCK33
MCK33_2
PLCK
RFAC
to RF AMP.
(CXA1881AR)
AUDIO DSP
to PCM/DSD SELECTOR
GU-3570 sht.3/3
to B/E uCOM (M30220M8-xxxFP)
DSARS
DSALS
DSASW
DSAC
DSAR
DSAL
BCKAO
SMUTE
DSDRST
MSREADY
MSDATAO
MSDATAI
MSCK
XMSLAT
SELDSD
MCK33
to Ext.PLL
Q405
SN74LV04APW-EL2
GU-3570-1
MAIN UNIT (2/3)
L401 FBMJ160BHS280NT
L402 FBMJ160BHS280NT
L403 FBMJ160BHS280NT
L404 FBMJ160BHS280NT
L405 FBMJ160BHS280NT
L406 FBMJ160BHS280NT
L407 FBMJ160BHS280NT
+12V_M1
+12V_M2
+5V_D2
+5V_M2
+5V_A2
+3.3V_D2
+3.3V_A2
+2.5V_D2
+2.5V_A2
+2.5V_D3
+1.8V_D2
GND_M2
GND_A2
GND_D2
GND_D1

PM01 (3/8)
Back / End

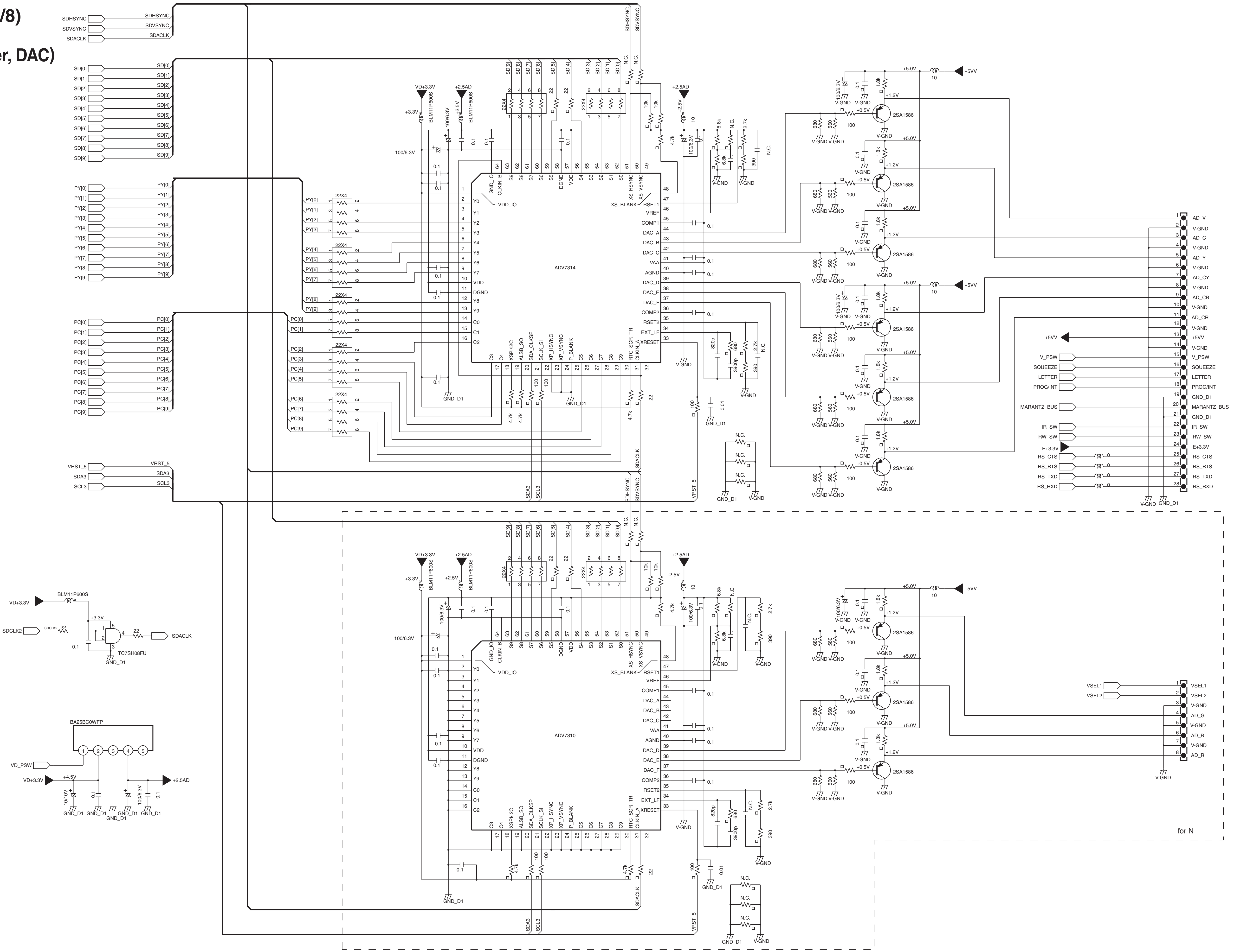


[EP ROM]
Q103
M5M29GB320VP
[64M SDRAM]
W986416DH-7
[MPEG DECODER]
M65776BFP
Q101
GU-3570-1
MAIN UNIT (3/3)
GU-3570 sht.2/3
to DVD PROCESSOR (CXD1885Q)
to PLD (EPM3064A)
to AUDIO DSP
SN74LV244APW
Q203
[PCM/DSD SELECTOR]
Q204
TC74VHC157AF
Q205
TC74VHC157AF
Q206
TC74VHC157AF
Q207
TC74VHC157FT
J271
26FMN-BMTTN
to HP DAC
to HDMI HP DAC
to AUDIO UNIT
to PANEL UP
to DSD DECODER (CXD2753R)
to PANEL CONTORL uCOM
to DVD PROCESSOR (CXD1885Q)
[B/E uCOM]
Q102
M32102S6FP
J132
13FMN-BMTTN
GU-3570 sht.2/3
to F/E
MCK33
Q108
SN74LV138APW-EL2
Q109
SN74LV273ANS
Q110
[I/O EXPANDER]
Q105
SM8707EV
Q106
Q107
X101
27MHz
[Ext. PLL]
to VIDEO PART
[EEP-ROM]
Q113
AT24C04N
to VIDEO PART
to POWER UNIT
J121
B15B-PH-SM3

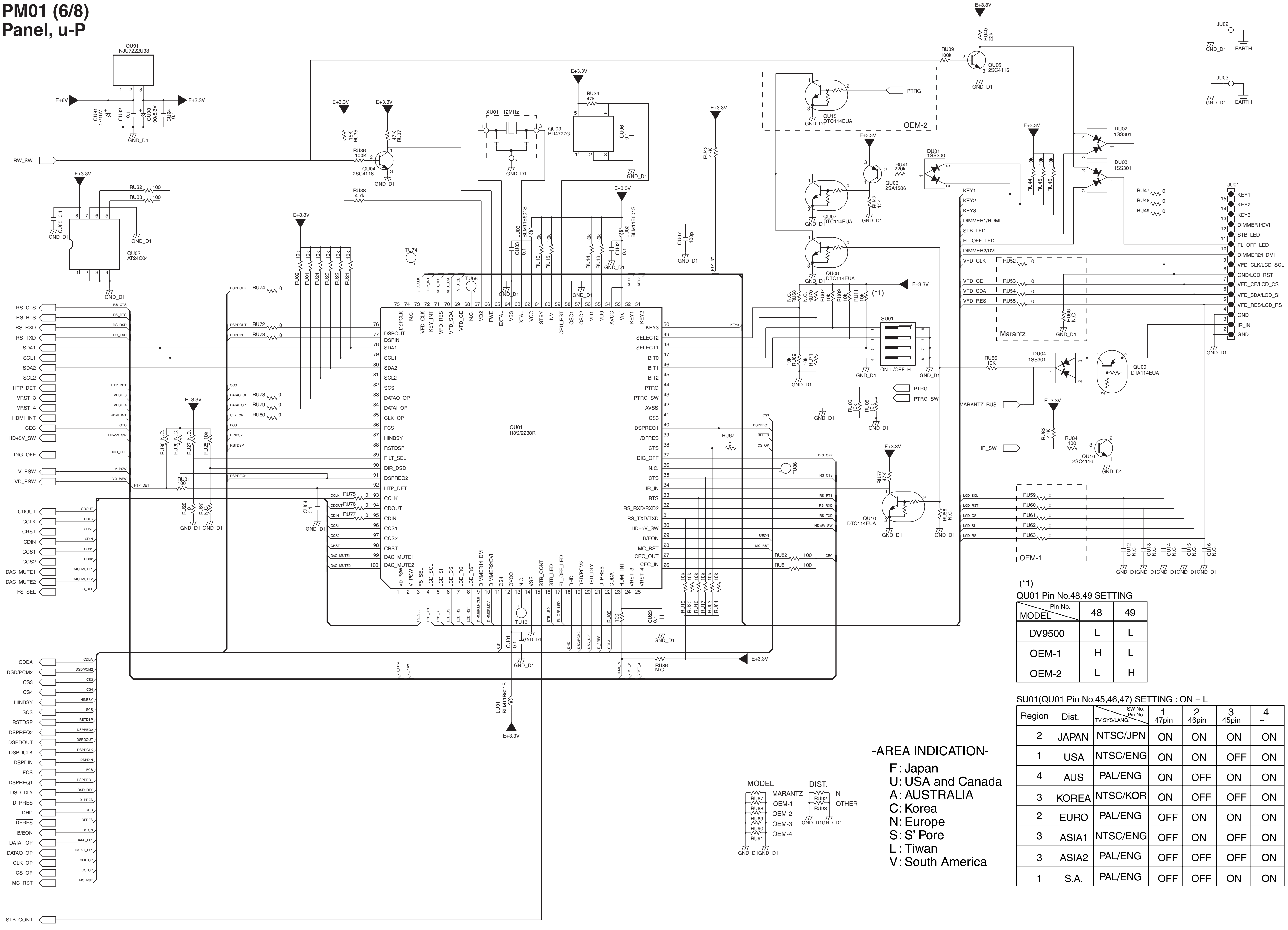
PM01 (4/8)
Video (I/P, Conv.)


QK91 BA033SFP
QK92 BA25BC0WFP
VD_PSW
E+4V
VD+3.3V
VD+2.5V
GND_D1
QK03 K4S643232E-TC60
QK01 CD0040AF
QK07 TC7S66FU
QK08 TC7S66FU
QK09 TC7SH08FU
QK10 TC74VHC541
QK11 TC74VHC541
QK04 TC74VHC541
QK05 TC74VHC541
QK06 TC74VHC541
QK12 TC7SH08FU
V_SDA
SDA3
V_SCL
SCL3
MCLK
HD_MCLK
V_RST
VCLK
VSYNC
HSYNC
PDCLK
PDVSYNC
PDHSYNC
PXD7
PXD6
PXD5
PXD4
PXD3
PXD2
PXD1
PXD0
VRST_5
SDCLK
SDHSYNC
SDVSYNC
DOUT2
DIG_OFF
HD_MCLK
SDA1
SCL1
SDA2
SCL2
SPDIF
SDCLK2
JK01
JK02
JK03
JK05
JK06
EARTH
OEM-2
VRST_3
VRST_4
HDMI_INT
HTP_DET
CEC
HD+5V_SW
VD_PSW
E+4V
E+3.3V
E+6V
+5V_D1
PTRG
PTRG_SW
SW+5V

PM01 (5/8)
Video
(Encorder, DAC)


SDHSYNC
SDVSYNC
SDACLK
SD[0]
SD[1]
SD[2]
SD[3]
SD[4]
SD[5]
SD[6]
SD[7]
SD[8]
SD[9]
PY[0]
PY[1]
PY[2]
PY[3]
PY[4]
PY[5]
PY[6]
PY[7]
PY[8]
PY[9]
PC[0]
PC[1]
PC[2]
PC[3]
PC[4]
PC[5]
PC[6]
PC[7]
PC[8]
PC[9]
VRST_5
SDA3
SCL3
22X4
VD+3.3V
+2.5AD
+3.3V
+2.5V
BLM11P600S
100/6.3V
0.1
ADV7314
ADV7310
GND_IO
CLKIN_B
VDD_IO
XS_HSYNC
XS_VSYNC
XS_BLANK
RSET1
VREF
COMP1
DAC_A
DAC_B
DAC_C
VAA
AGND
DAC_D
DAC_E
DAC_F
COMP2
RSET2
EXT_LF
XRESET
XSPI/I2C
ALSB_SO
SDA_CLKSP
SCLK_SI
XP_HSYNC
XP_VSYNC
P_BLANK
RTC_SCR_TR
CLKIN_A
DGND
VDD
GND_D1
V-GND
N.C.
2SA1586
+5.0V
+1.2V
+0.5V
+5VV
AD_V
V-GND
AD_C
AD_Y
AD_CY
AD_CB
AD_CR
+5VV
V_PSW
SQUEEZE
LETTER
PROG/INT
GND_D1
MARANTZ_BUS
IR_SW
RW_SW
E+3.3V
RS_CTS
RS_RTS
RS_TXD
RS_RXD
VSEL1
VSEL2
AD_G
AD_B
AD_R
for N
SDCLK2
SDACLK
TC7SH08FU
BA25BC0WFP
VD_PSW
+4.5V
10/10V

PM01 (6/8)
Panel, u-P


QU91 NJU7222U33
E+6V
E+3.3V
CU91 47/16V
CU92 0.1
CU93 100/6.3V
CU94 0.1
GND_D1
RW_SW
QU02 AT24C04
CU05 0.1
RU32 100
RU33 100
RU35 15K
RU36 100K
RU37 47K
QU04 2SC4116
RU38 4.7k
XU01 12MHz
QU03 BD4727G
RU34 47k
CU06 0.1
LU03 BLM11B601S
LU02 BLM11B601S
CU03 0.1
CU02 0.1
RU16 10k
RU15 10k
RU14 10k
RU13 10k
CU07 100p
RU43 47K
RU39 100k
RU40 22k
QU05 2SC4116
QU15 DTC114EUA
OEM-2
PTRG
QU06 2SA1586
RU41 220k
RU42 10k
DU01 1SS300
QU07 DTC114EUA
QU08 DTC114EUA
DU02 1SS301
DU03 1SS301
RU44 10k
RU45 10k
RU46 10k
RU47 0
RU48 0
RU49 0
JU01
JU02
JU03
EARTH
KEY1
KEY2
KEY3
DIMMER1/DVI
STB_LED
FL_OFF_LED
DIMMER2/HDMI
VFD_CLK/LCD_SCL
GND/LCD_RST
VFD_CE/LCD_CS
VFD_SDA/LCD_SI
VFD_RES/LCD_RS
GND
IR_IN
VFD_CLK
VFD_CE
VFD_SDA
VFD_RES
RU52 0
RU53 0
RU54 0
RU55 0
RU66 N.C.
Marantz
SU01
ON: L/OFF: H
(*1)
RU68 N.C.
RU70 N.C.
RU07 10k
RU09 10k
RU11 10k
RU69 10k
RU71 10k
RU56 10K
DU04 1SS301
QU09 DTA114EUA
MARANTZ_BUS
IR_SW
RU83 47K
RU84 100
QU16 2SC4116
RU57 47K
QU10 DTC114EUA
RU58 N.C.
LCD_SCL
LCD_RST
LCD_CS
LCD_SI
LCD_RS
RU59 0
RU60 0
RU61 0
RU62 0
RU63 0
OEM-1
CU12 N.C.
CU13 N.C.
CU14 N.C.
CU15 N.C.
CU16 N.C.
PTRG_SW
RU05 10k
RU06 10k
TU74
TU68
TU36
TU13
QU01 H8S/2238R
DSPCLK
N.C.
VFD_CLK
KEY_INT
VFD_RES
VFD_SDA
VFD_CE
MD2
FWE
EXTAL
VSS
XTAL
VCC
STBY
NMI
CPU_RST
OSC1
OSC2
MD1
MD0
AVCC
Vref
KEY2
KEY3
SELECT2
SELECT1
BIT0
BIT1
BIT2
PTRG
PTRG_SW
AVSS
CS3
DSPREQ1
/DFRES
CTS
DIG_OFF
IR_IN
RTS
RS_RXD/RXD2
RS_TXD/TXD
HD+5V_SW
B/EON
MC_RST
CEC_OUT
CEC_IN
DSPOUT
DSPIN
SDA1
SCL1
SDA2
SCL2
SCS
DATAO_OP
DATAI_OP
CLK_OP
FCS
HINBSY
RSTDSP
FILT_SEL
DIR_DSD
DSPREQ2
HTP_DET
CCLK
CDOUT
CDIN
CCS1
CCS2
CRST
DAC_MUTE1
DAC_MUTE2
VD_PSW
V_PSW
FS_SEL
LCD_SCL
LCD_SI
LCD_CS
LCD_RS
LCD_RST
DIMMER1/HDMI
DIMMER2/DVI
CS4
CVCC
STB_CONT
STB_LED
FL_OFF_LED
DHD
DSD/PCM2
DSD_DLY
D_PRES
CDDA
HDMI_INT
VRST_3
VRST_4
RU74 0
RU72 0
RU73 0
RU78 0
RU79 0
RU80 0
RU75 0
RU76 0
RU77 0
RU02 10k
RU01 10k
RU24 10k
RU23 10k
RU22 10k
RU21 10k
RU30 N.C.
RU29 N.C.
RU27 N.C.
RU25 10k
RU31 100
RU28 0
RU26 N.C.
CU04 0.1
RU67 0
RU82 100
RU81 100
RU19 10k
RU20 10k
RU18 10k
RU17 10k
RU03 10k
RU04 10k
RU85 100
CU23 0.1
CU01 0.1
RU86 N.C.
LU01 BLM11B601S
RS_CTS
RS_RTS
RS_RXD
RS_TXD
HTP_DET
VRST_3
VRST_4
HDMI_INT
CEC
HD+5V_SW
DIG_OFF
V_PSW
VD_PSW
CDOUT
CCLK
CRST
CDIN
CCS1
CCS2
DAC_MUTE1
DAC_MUTE2
FS_SEL
CDDA
DSD/PCM2
CS3
CS4
HINBSY
SCS
RSTDSP
DSPREQ2
DSPDOUT
DSPDCLK
DSPDIN
FCS
DSPREQ1
DSD_DLY
D_PRES
DHD
DFRES
B/EON
DATAI_OP
DATAO_OP
CLK_OP
CS_OP
MC_RST
STB_CONT
MODEL
MARANTZ
OEM-1
OEM-2
OEM-3
OEM-4
RU87
RU88
RU89
RU90
RU91
DIST.
N
OTHER
RU92
RU93

(*1)

QU01 Pin No.48,49 SETTING

Pin No. / MODEL	48	49
DV9500	L	L
OEM-1	H	L
OEM-2	L	H

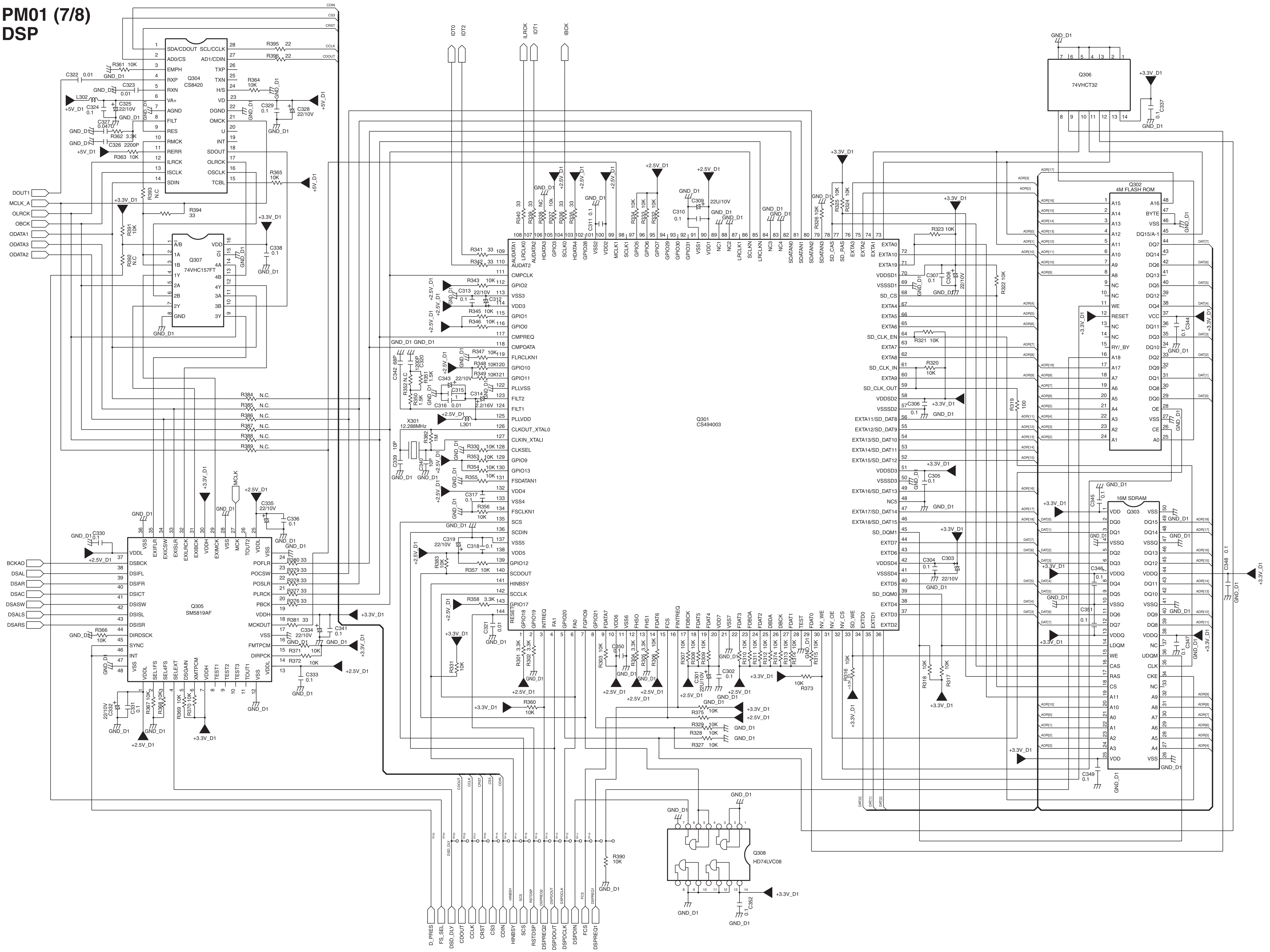
SU01(QU01 Pin No.45,46,47) SETTING : ON = L

Region	Dist.	SW No. / Pin No. / TV SYS/LANG.	1 47pin	2 46pin	3 45pin	4 --
2	JAPAN	NTSC/JPN	ON	ON	ON	ON
1	USA	NTSC/ENG	ON	ON	OFF	ON
4	AUS	PAL/ENG	ON	OFF	ON	ON
3	KOREA	NTSC/KOR	ON	OFF	OFF	ON
2	EURO	PAL/ENG	OFF	ON	ON	ON
3	ASIA1	NTSC/ENG	OFF	ON	OFF	ON
3	ASIA2	PAL/ENG	OFF	OFF	OFF	ON
1	S.A.	PAL/ENG	OFF	OFF	ON	ON

-AREA INDICATION-

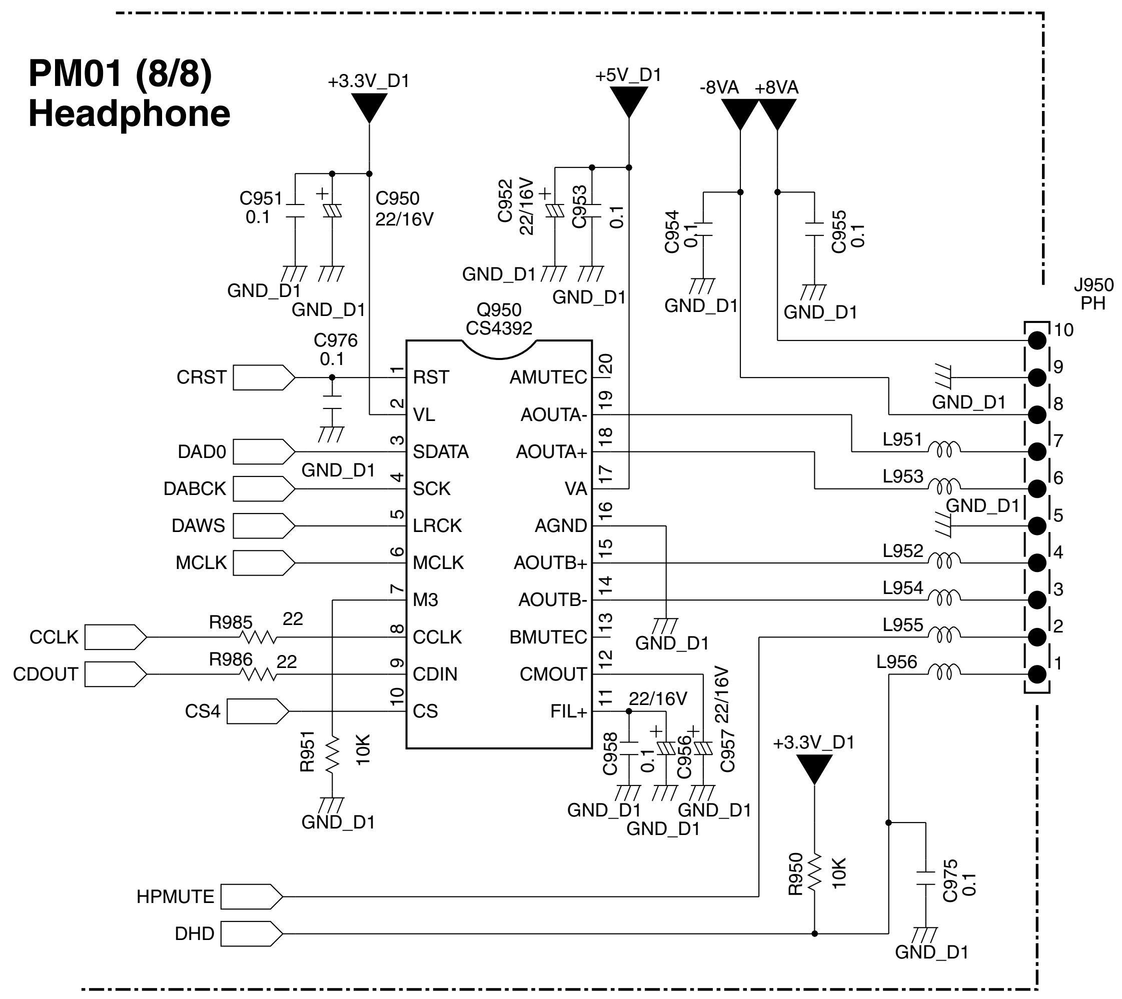
F : Japan
U : USA and Canada
A : AUSTRALIA
C : Korea
N : Europe
S : S’ Pore
L : Tiwan
V : South America

PM01 (7/8)
DSP



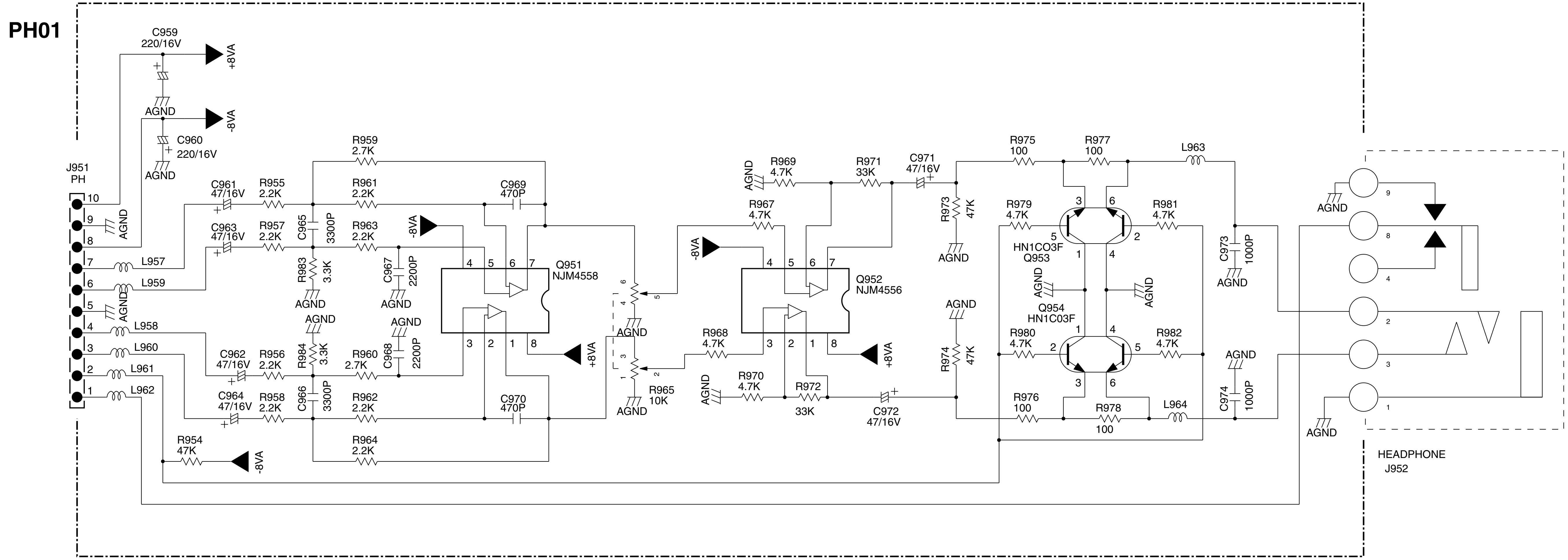
Q304 CS8420
SDA/CDOUT
AD0/CS
EMPH
RXP
RXN
VA+
AGND
FILT
RES
RMCK
RERR
ILRCK
ISCLK
SDIN
SCL/CCLK
AD1/CDIN
TXP
TXN
H/S
VD
DGND
OMCK
U
INT
SDOUT
OLRCK
OSCLK
TCBL
Q307 74VHC157FT
Q305 SM5819AF
Q301 CS494003
Q302 4M FLASH ROM
Q303 16M SDRAM
Q306 74VHCT32
Q308 HD74LVC08
X301 12.288MHz
DOUT1
MCLK_A
OLRCK
OBCK
ODATA1
ODATA3
ODATA2
BCKAO
DSAL
DSAR
DSAC
DSASW
DSALS
DSARS
IDT0
IDT2
ILRCK
IDT1
IBCK
CDIN
CS3
CRST
CCLK
CDOUT
MCLK
+5V_D1
+3.3V_D1
+2.5V_D1
GND_D1
D_PRES
FS_SEL
DSD_DLY
CDOUT
CCLK
CRST
CS3
CDIN
HINBSY
SCS
RSTDSP
DSPREQ2
DSPDOUT
DSPDCLK
DSPDIN
FCS
DSPREQ1
R390 10K

PM01 (8/8)
Headphone



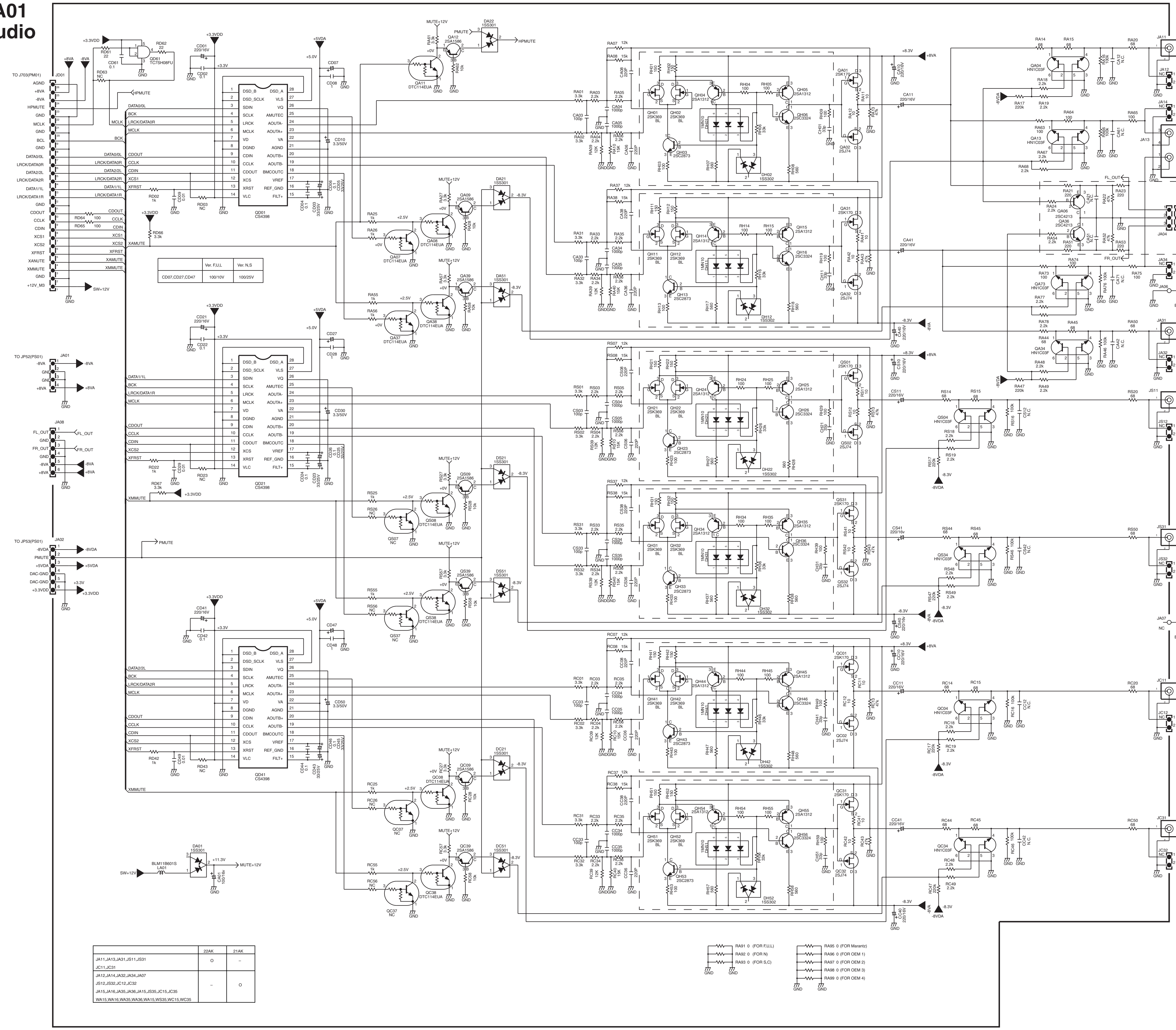
+3.3V_D1
+5V_D1
-8VA
+8VA
C951
0.1
C950
22/16V
C952
22/16V
C953
0.1
C954
0.1
C955
0.1
GND_D1
Q950
CS4392
C976
0.1
CRST
DAD0
DABCK
DAWS
MCLK
CCLK
CDOUT
CS4
R985
22
R986
22
R951
10K
1 RST
2 VL
3 SDATA
4 SCK
5 LRCK
6 MCLK
7 M3
8 CCLK
9 CDIN
10 CS
20 AMUTEC
19 AOUTA-
18 AOUTA+
17 VA
16 AGND
15 AOUTB+
14 AOUTB-
13 BMUTEC
12 CMOUT
11 FIL+
22/16V
C958
0.1
C956
C957
22/16V
J950
PH
L951
L953
L952
L954
L955
L956
+3.3V_D1
R950
10K
C975
0.1
HPMUTE
DHD

PH01



C959
220/16V
+8VA
AGND
-8VA
C960
220/16V
J951
PH
L957
L959
L958
L960
L961
L962
C961
47/16V
R955
2.2K
C963
47/16V
R957
2.2K
R959
2.7K
R961
2.2K
C965
3300P
R963
2.2K
C969
470P
R983
3.3K
C967
2200P
Q951
NJM4558
R984
3.3K
C962
47/16V
R956
2.2K
R960
2.7K
C968
2200P
C964
47/16V
R958
2.2K
C966
3300P
R962
2.2K
C970
470P
R964
2.2K
R954
47K
R965
10K
R969
4.7K
R967
4.7K
R971
33K
C971
47/16V
Q952
NJM4556
R968
4.7K
R970
4.7K
R972
33K
C972
47/16V
R973
47K
R974
47K
R975
100
R977
100
L963
R979
4.7K
R981
4.7K
HN1CO3F
Q953
Q954
HN1C03F
R980
4.7K
R982
4.7K
R976
100
R978
100
L964
C973
1000P
C974
1000P
HEADPHONE
J952

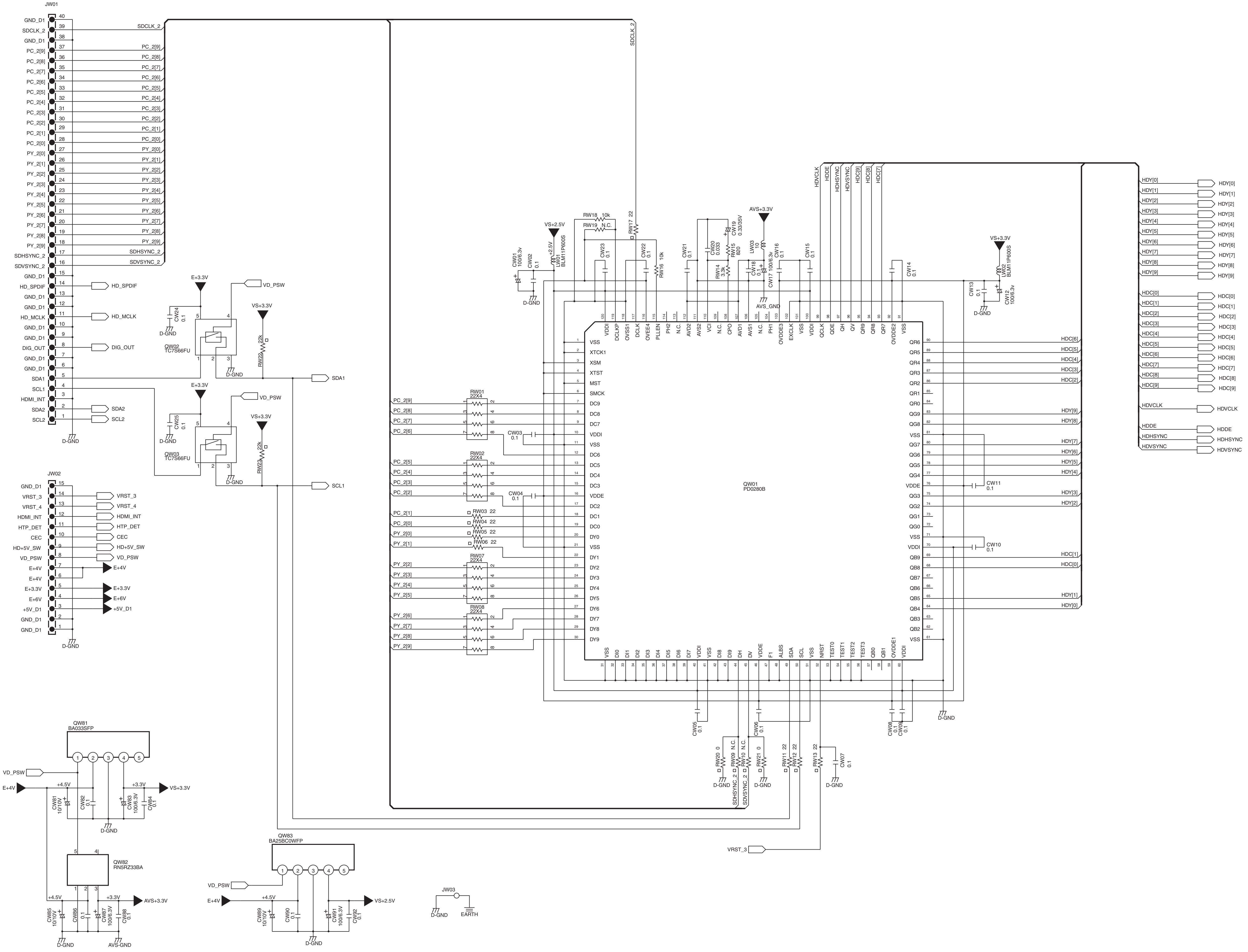
PA01
Audio


TO J703(PM01)
JD01
AGND
+8VA
-8VA
HPMUTE
GND
MCLK
GND
BCL
GND
DATA0/0L
DATA0/0R
DATA2/2L
LRCK/DATA2R
DATA1/1L
LRCK/DATA1R
GND
CDOUT
CCLK
CDIN
XCS1
XCS2
XFRST
XANUTE
XMMUTE
GND
+12V_M3
SW+12V
QD01
CS4398
QD21
CS4398
QD41
CS4398
DSD_B
DSD_SCLK
SDIN
SCLK
LRCK
MCLK
VD
DGND
CDIN
CCLK
CDOUT
XCS
XRST
VLC
DSD_A
VLS
VQ
AMUTEC
AOUTA-
AOUTA+
VA
AGND
AOUTB+
AOUTB-
BMCOUTC
VREF
REF_GND
FILT+
QD61
TC7SH08FU
QA11
DTC114EUA
QA12
2SA1586
DA22
1SS301
HPMUTE
MUTE+12V
PMUTE
TO JP52(PS01)
JA01
TO JP53(PS01)
JA02
JA08
FL_OUT
FR_OUT
-8VDA
+5VDA
DAC-GND
+3.3VDD
DA01
1SS301
BLM11B601S
LA01
+11.3V
MUTE+12V
QH01
2SK369
QH04
2SA1312
QH05
2SA1312
QH06
2SC3324
QH03
2SC2873
DH01
1MN10
DH02
1SS302
QA01
2SK170
QA02
2SJ74
QA04
HN1C03F
QA06
2SC4213
QA36
2SC4213
JA04
WA01
TO SCART
TO JE90(PV01)
(FOR N)
FRONT1
L.CH
(WHT)
FRONT2
L.CH
(WHT)
FRONT2
R.CH
(RED)
FRONT1
R.CH
(RED)
SURROUND
L.CH
(BLK)
SURROUND
R.CH
(BLK)
CENTER CH
(BLK)
CNTER CH
(BLK)
SW.CH
(BLK)
JA11
JA12
JA13
JA14
JA15
JA16
JA31
JA32
JA34
JA35
JA36
JA06
JA07
JS11
JS12
JS15
JS31
JS32
JS35
JC11
JC12
JC15
JC31
JC32
JC35
WA15
WA16
WA35
WA36
WS15
WS35
WC15
WC35
EARTH
RA91 0 (FOR F,U,L)
RA92 0 (FOR N)
RA93 0 (FOR S,C)
RA95 0 (FOR Marantz)
RA96 0 (FOR OEM 1)
RA97 0 (FOR OEM 2)
RA98 0 (FOR OEM 3)
RA99 0 (FOR OEM 4)

	Ver. F,U,L	Ver. N,S
CD07,CD27,CD47	100/10V	100/25V

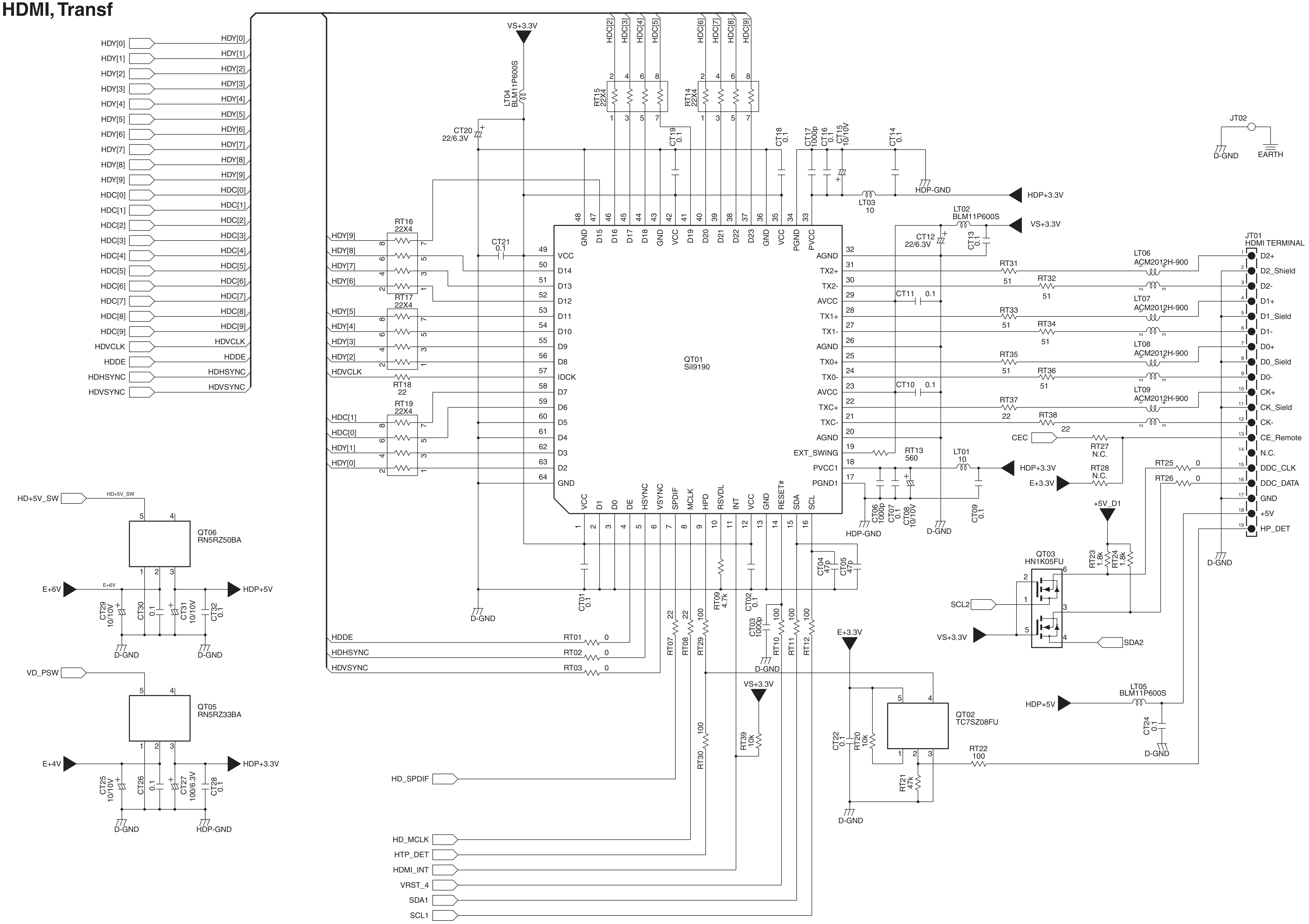
	22AK	21AK
JA11,JA13,JA31,JS11,JS31 JC11,JC31	O	–
JA12,JA14,JA32,JA34,JA07 JS12,JS32,JC12,JC32 JA15,JA16,JA35,JA36,JA15,JS35,JC15,JC35 WA15,WA16,WA35,WA36,WA15,WS35,WC15,WC35	–	O

PT01 (1/3)
Video
(Scaler)

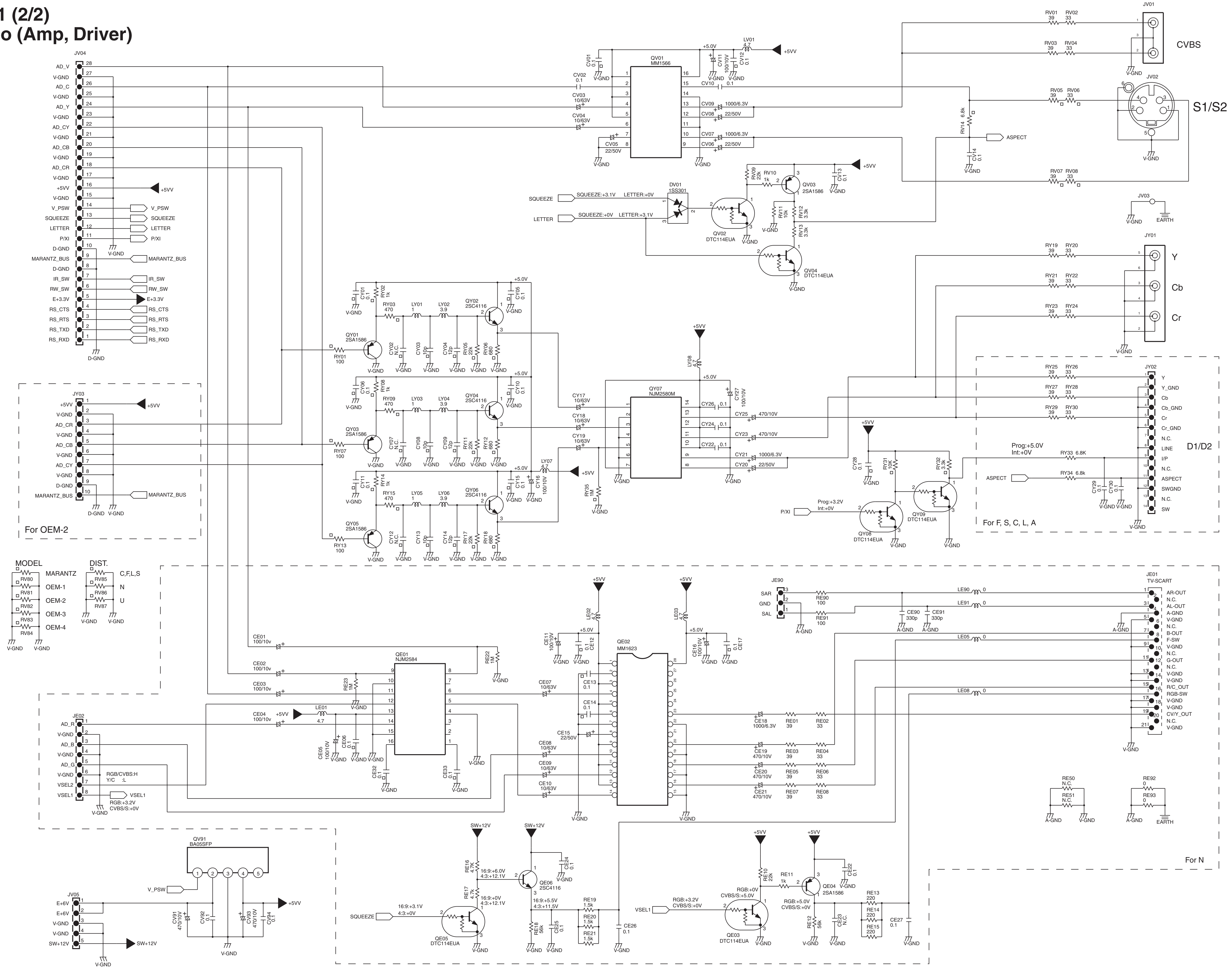


JW01
GND_D1
SDCLK_2
PC_2[9]
PC_2[8]
PC_2[7]
PC_2[6]
PC_2[5]
PC_2[4]
PC_2[3]
PC_2[2]
PC_2[1]
PC_2[0]
PY_2[0]
PY_2[1]
PY_2[2]
PY_2[3]
PY_2[4]
PY_2[5]
PY_2[6]
PY_2[7]
PY_2[8]
PY_2[9]
SDHSYNC_2
SDVSYNC_2
HD_SPDIF
HD_MCLK
DIG_OUT
SDA1
SCL1
HDMI_INT
SDA2
SCL2
D-GND
E+3.3V
VS+3.3V
VD_PSW
QW02
TC7S66FU
QW03
TC7S66FU
RW22 22k
RW23 22k
CW24 0.1
CW25 0.1
JW02
VRST_3
VRST_4
HTP_DET
CEC
HD+5V_SW
E+4V
E+6V
+5V_D1
QW81
BA033SFP
QW82
RN5RZ33BA
QW83
BA25BC0WFP
+4.5V
+3.3V
AVS+3.3V
AVS-GND
VS+2.5V
CW81 10/10V
CW82 0.1
CW83 100/6.3V
CW84 0.1
CW85 10/10V
CW86 0.1
CW87 100/6.3V
CW88 0.1
CW89 10/10V
CW90 0.1
CW91 100/6.3V
CW92 0.1
JW03
EARTH
RW01 22X4
RW02 22X4
RW07 22X4
RW08 22X4
RW03 22
RW04 22
RW05 22
RW06 22
CW03 0.1
CW04 0.1
QW01
PD0280B
RW18 10k
RW19 N.C.
RW17 22
RW16 10k
RW14 3.3k
RW15 820
LW01 BLM11P600S
LW02 BLM11P600S
LW03 10
CW01 100/6.3v
CW02 0.1
CW12 100/6.3v
CW13 0.1
CW14 0.1
CW15 0.1
CW16 0.1
CW17 100/6.3v
CW18 0.1
CW19 0.33/35V
CW20 0.033
CW21 0.1
CW22 0.1
CW23 0.1
CW05 0.1
CW06 0.1
CW07 0.1
CW08 0.1
CW09 0.1
CW10 0.1
CW11 0.1
RW09 N.C.
RW10 N.C.
RW11 22
RW12 22
RW13 22
RW20 0
RW21 0
HDY[0]
HDY[1]
HDY[2]
HDY[3]
HDY[4]
HDY[5]
HDY[6]
HDY[7]
HDY[8]
HDY[9]
HDC[0]
HDC[1]
HDC[2]
HDC[3]
HDC[4]
HDC[5]
HDC[6]
HDC[7]
HDC[8]
HDC[9]
HDVCLK
HDDE
HDHSYNC
HDVSYNC
VRST_3

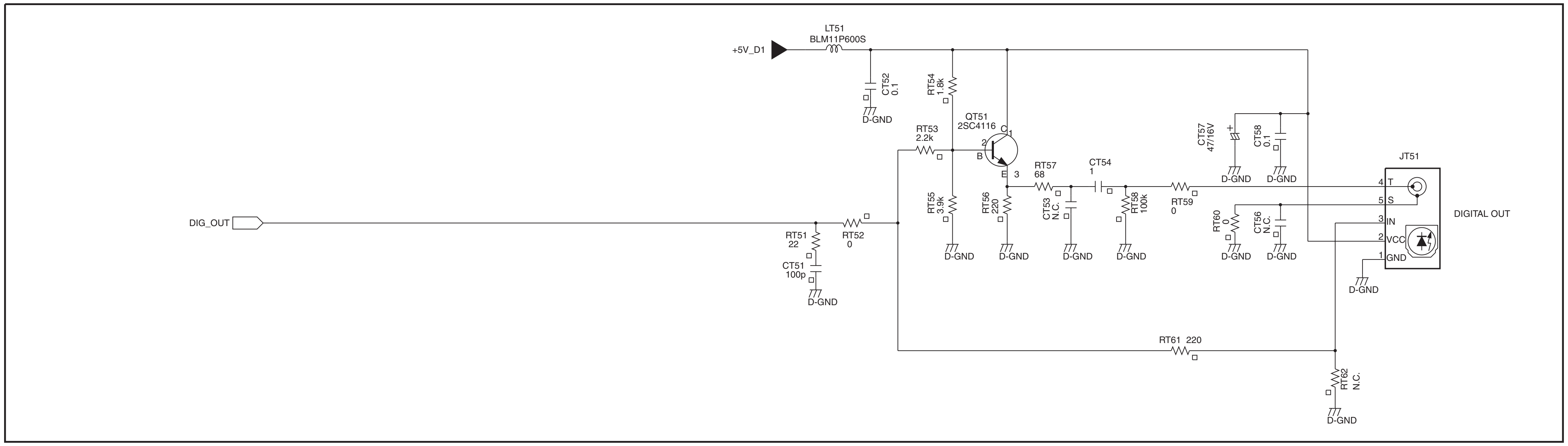
PT01 (2/3)
HDMI, Transf


HDY[0]
HDY[1]
HDY[2]
HDY[3]
HDY[4]
HDY[5]
HDY[6]
HDY[7]
HDY[8]
HDY[9]
HDC[0]
HDC[1]
HDC[2]
HDC[3]
HDC[4]
HDC[5]
HDC[6]
HDC[7]
HDC[8]
HDC[9]
HDVCLK
HDDE
HDHSYNC
HDVSYNC
VS+3.3V
LT04
BLM11P600S
CT20
22/6.3V
HDC[2]
HDC[3]
HDC[4]
HDC[5]
HDC[6]
HDC[7]
HDC[8]
HDC[9]
RT15
22X4
RT14
22X4
CT19
0.1
CT18
0.1
CT17
1000p
CT16
0.1
CT15
10/10V
CT14
0.1
HDP-GND
LT03
10
HDP+3.3V
LT02
BLM11P600S
VS+3.3V
CT12
22/6.3V
CT13
0.1
JT02
D-GND
EARTH
RT16
22X4
CT21
0.1
RT17
22X4
RT18
22
RT19
22X4
QT01
SiI9190
VCC
D14
D13
D12
D11
D10
D9
D8
IDCK
D7
D6
D5
D4
D3
D2
GND
GND
D15
D16
D17
D18
GND
VCC
D19
D20
D21
D22
D23
GND
VCC
PGND
PVCC
AGND
TX2+
TX2-
AVCC
TX1+
TX1-
AGND
TX0+
TX0-
AVCC
TXC+
TXC-
AGND
EXT_SWING
PVCC1
PGND1
VCC
D1
D0
DE
HSYNC
VSYNC
SPDIF
MCLK
HPD
RSVDL
INT
VCC
GND
RESET#
SDA
SCL
CT11 0.1
CT10 0.1
RT31
51
RT32
51
RT33
51
RT34
51
RT35
51
RT36
51
RT37
22
RT38
22
LT06
ACM2012H-900
LT07
ACM2012H-900
LT08
ACM2012H-900
LT09
ACM2012H-900
CEC
RT27
N.C.
RT13
560
LT01
10
HDP+3.3V
E+3.3V
RT28
N.C.
RT25 0
RT26 0
JT01
HDMI TERMINAL
D2+
D2_Shield
D2-
D1+
D1_Sield
D1-
D0+
D0_Sield
D0-
CK+
CK_Sield
CK-
CE_Remote
N.C.
DDC_CLK
DDC_DATA
GND
+5V
HP_DET
D-GND
CT06
1000p
CT07
0.1
CT08
10/10V
HDP-GND
D-GND
CT09
0.1
+5V_D1
RT23
1.8k
RT24
1.8k
QT03
HN1K05FU
SCL2
VS+3.3V
SDA2
CT04
47p
CT05
47p
CT01
0.1
RT09
4.7k
CT02
0.1
CT03
1000p
D-GND
RT07 22
RT08 22
RT29 100
RT10 100
RT11 100
RT12 100
D-GND
HDDE
HDHSYNC
HDVSYNC
RT01 0
RT02 0
RT03 0
HD+5V_SW
HD+5V_SW
QT06
RN5RZ50BA
E+6V
E+6V
HDP+5V
CT29
10/10V
CT30
0.1
CT31
10/10V
CT32
0.1
D-GND
D-GND
VD_PSW
QT05
RN5RZ33BA
E+4V
HDP+3.3V
CT25
10/10V
CT26
0.1
CT27
100/6.3V
CT28
0.1
D-GND
HDP-GND
E+3.3V
VS+3.3V
RT39
10k
RT30
100
CT22
0.1
RT20
10k
QT02
TC7SZ08FU
RT21
47k
RT22
100
D-GND
HDP+5V
LT05
BLM11P600S
CT24
0.1
D-GND
HD_SPDIF
HD_MCLK
HTP_DET
HDMI_INT
VRST_4
SDA1
SCL1

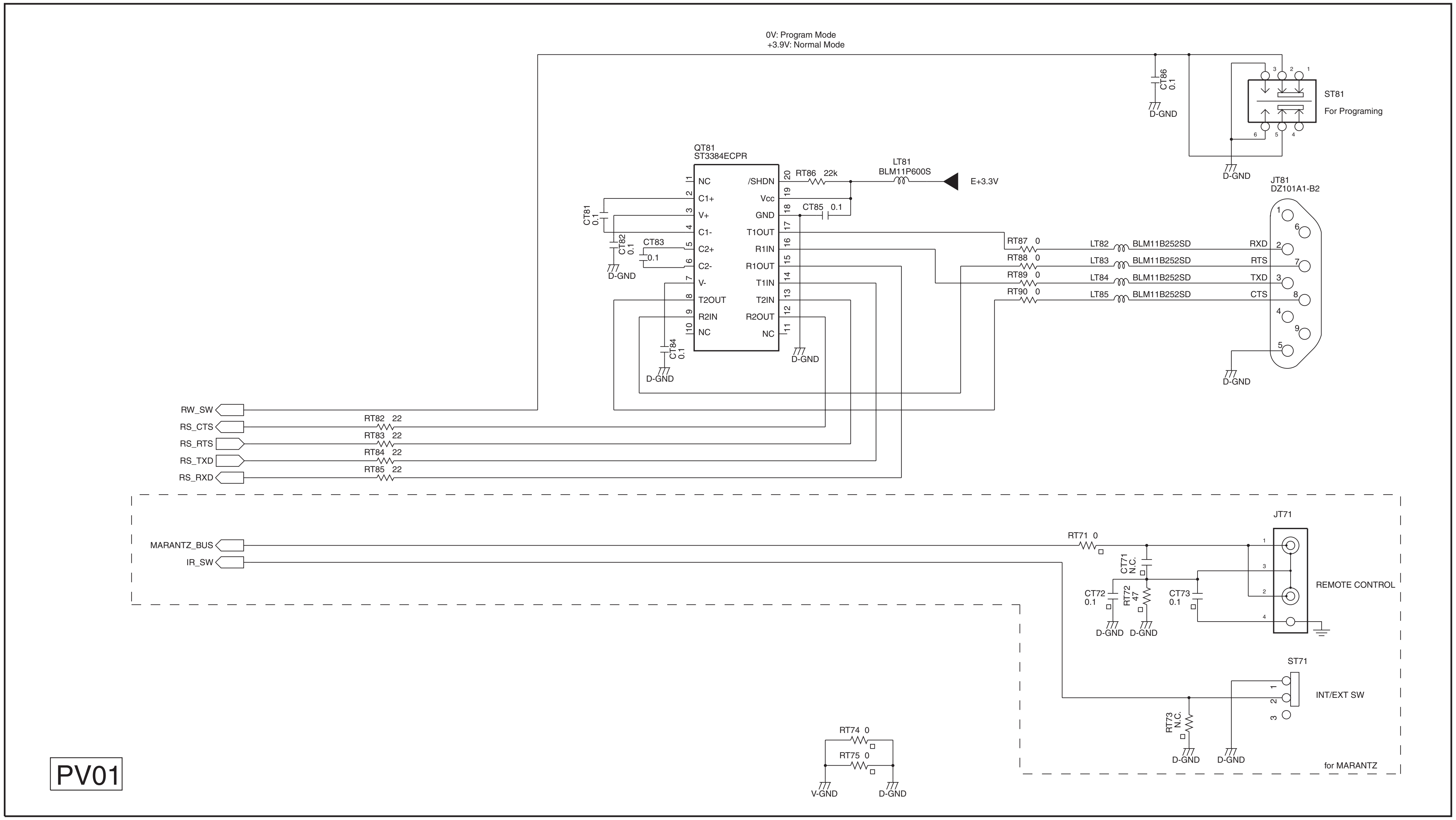
PV01 (2/2)
Video (Amp, Driver)


JV04
AD_V
V-GND
AD_C
AD_Y
AD_CY
AD_CB
AD_CR
+5VV
V_PSW
SQUEEZE
LETTER
P/XI
D-GND
MARANTZ_BUS
IR_SW
RW_SW
E+3.3V
RS_CTS
RS_RTS
RS_TXD
RS_RXD
JV03
For OEM-2
MODEL
MARANTZ
OEM-1
OEM-2
OEM-3
OEM-4
RV80
RV81
RV82
RV83
RV84
DIST.
C,F,L,S
N
U
RV85
RV86
RV87
QV01
MM1566
CV01
CV02
CV03
CV04
CV05
CV06
CV07
CV08
CV09
CV10
CV11
CV12
LV01
+5.0V
DV01
1SS301
SQUEEZE:+3.1V
LETTER:+0V
SQUEEZE:+0V
LETTER:+3.1V
QV02
DTC114EUA
QV03
2SA1586
QV04
DTC114EUA
RV09
RV10
RV11
RV12
RV13
RV14
ASPECT
JV01
CVBS
JV02
S1/S2
RV01
RV02
RV03
RV04
RV05
RV06
RV07
RV08
JV03
EARTH
JV01
Y
Cb
Cr
RY19
RY20
RY21
RY22
RY23
RY24
QY01
2SA1586
QY02
2SC4116
QY03
2SA1586
QY04
2SC4116
QY05
2SA1586
QY06
2SC4116
LY01
LY02
LY03
LY04
LY05
LY06
LY07
LY08
QY07
NJM2580M
CY17
CY18
CY19
CY20
CY21
CY22
CY23
CY24
CY25
CY26
CY27
RY35
JY02
D1/D2
Y
Y_GND
Cb
Cb_GND
Cr
Cr_GND
N.C.
LINE
I/P
ASPECT
SWGND
SW
Prog:+5.0V
Int:+0V
RY33 6.8K
RY34 6.8k
QY08
DTC114EUA
QY09
DTC114EUA
Prog:+3.2V
Int:+0V
P/XI
For F, S, C, L, A
QE01
NJM2584
CE01
CE02
CE03
CE04
LE01
RE22
RE23
QE02
MM1623
LE02
LE03
JE90
SAR
GND
SAL
A-GND
JE01
TV-SCART
AR-OUT
AL-OUT
A-GND
B-OUT
F-SW
G-OUT
R/C_OUT
RGB-SW
CV/Y_OUT
LE90
LE91
LE05
LE08
RE50
RE51
RE92
RE93
JE02
AD_R
AD_B
AD_G
VSEL2
VSEL1
RGB/CVBS:H
Y/C :L
RGB:+3.2V
CVBS/S:+0V
For N
QV91
BA05SFP
JV05
E+6V
SW+12V
QE05
DTC114EUA
QE06
2SC4116
16:9:+6.0V
4:3:+12.1V
16:9:+0V
4:3:+12.1V
16:9:+5.5V
4:3:+11.5V
16:9:+3.1V
4:3:+0V
QE03
DTC114EUA
QE04
2SA1586
RGB:+0V
CVBS/S:+5.0V
RGB:+5.0V
CVBS/S:+0V
VSEL1

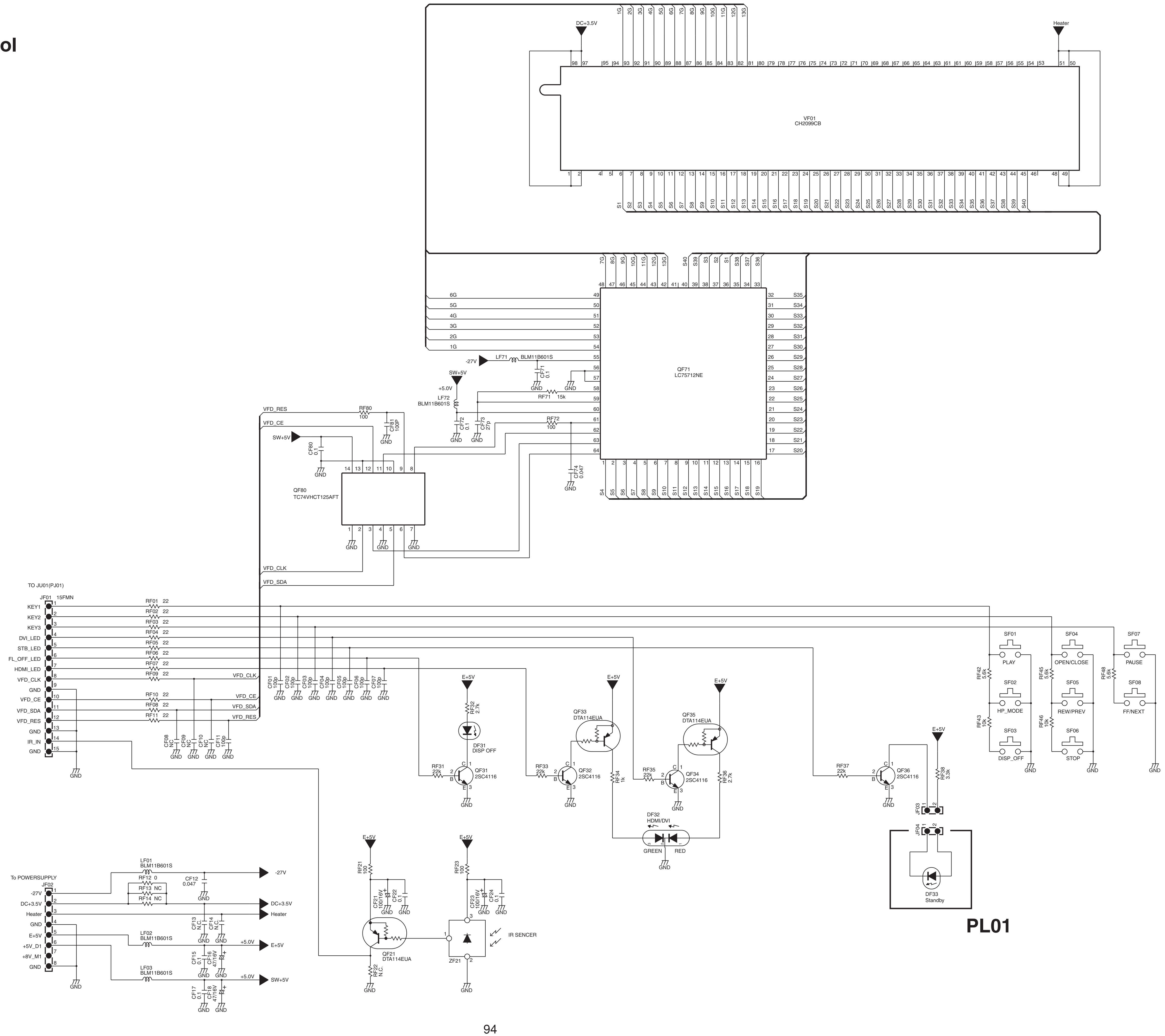
PT01 (3/3)
Remote


+5V_D1
LT51
BLM11P600S
CT52
0.1
D-GND
RT54
1.8k
QT51
2SC4116
RT53
2.2k
B
C
E
1
2
3
RT57
68
CT54
1
CT57
47/16V
CT58
0.1
JT51
DIG_OUT
RT51
22
RT52
0
CT51
100p
RT55
3.9k
RT56
220
CT53
N.C.
RT58
100k
RT59
0
RT60
0
CT56
N.C.
4 T
5 S
3 IN
2 VCC
1 GND
DIGITAL OUT
RT61 220
RT62
N.C.
D-GND

PV01 (1/2)

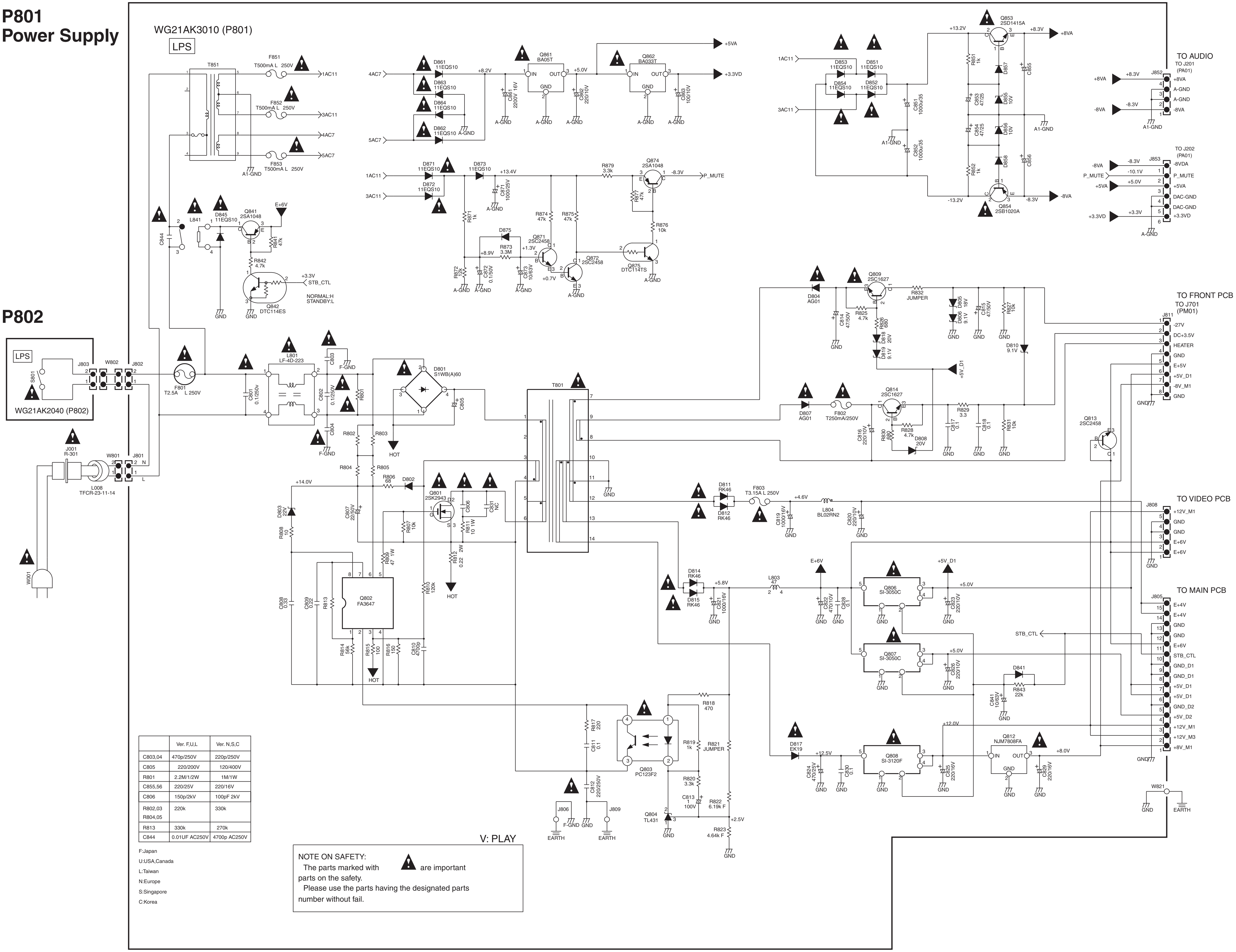

0V: Program Mode
+3.9V: Normal Mode
CT86
0.1
D-GND
ST81
For Programing
QT81
ST3384ECPR
NC
C1+
V+
C1-
C2+
C2-
V-
T2OUT
R2IN
NC
/SHDN
Vcc
GND
T1OUT
R1IN
R1OUT
T1IN
T2IN
R2OUT
NC
RT86 22k
LT81
BLM11P600S
E+3.3V
CT85 0.1
CT81
0.1
CT82
0.1
CT83
0.1
CT84
0.1
JT81
DZ101A1-B2
RT87 0
RT88 0
RT89 0
RT90 0
LT82 BLM11B252SD
LT83 BLM11B252SD
LT84 BLM11B252SD
LT85 BLM11B252SD
RXD
RTS
TXD
CTS
RW_SW
RS_CTS
RS_RTS
RS_TXD
RS_RXD
RT82 22
RT83 22
RT84 22
RT85 22
MARANTZ_BUS
IR_SW
RT71 0
JT71
CT71
N.C.
CT72
0.1
RT72
47
CT73
0.1
REMOTE CONTROL
ST71
INT/EXT SW
RT73
N.C.
for MARANTZ
RT74 0
RT75 0
V-GND
D-GND
PV01

PF01
Display Control


VF01
CH2099CB
DC+3.5V
Heater
QF71
LC75712NE
QF80
TC74VHCT125AFT
LF71 BLM11B601S
LF72 BLM11B601S
-27V
SW+5V
+5.0V
RF71 15k
RF72 100
RF80 100
CF71 0.1
CF72 0.1
CF73 27p
CF74 0.047
CF80 0.1
CF81 100P
VFD_RES
VFD_CE
VFD_CLK
VFD_SDA
TO JU01(PJ01)
JF01 15FMN
KEY1
KEY2
KEY3
DVI_LED
STB_LED
FL_OFF_LED
HDMI_LED
VFD_CLK
GND
VFD_CE
VFD_SDA
VFD_RES
GND
IR_IN
GND
RF01 22
RF02 22
RF03 22
RF04 22
RF05 22
RF06 22
RF07 22
RF09 22
RF10 22
RF08 22
RF11 22
CF01 100p
CF02 100p
CF03 100p
CF04 100p
CF05 100p
CF06 100p
CF07 100p
CF08 NC
CF09 NC
CF10 NC
CF11 100p
E+5V
RF32 2.7k
DF31 DISP OFF
RF31 22k
QF31 2SC4116
QF33 DTA114EUA
RF33 22k
QF32 2SC4116
RF34 1k
QF35 DTA114EUA
RF35 22k
QF34 2SC4116
RF36 2.7k
DF32 HDMI/DVI
GREEN
RED
RF37 22k
QF36 2SC4116
RF38 3.3k
JF03
JF04
DF33 Standby
PL01
SF01 PLAY
SF02 HP_MODE
SF03 DISP_OFF
SF04 OPEN/CLOSE
SF05 REW/PREV
SF06 STOP
SF07 PAUSE
SF08 FF/NEXT
RF42 5.6k
RF43 10k
RF45 5.6k
RF46 10k
RF48 5.6k
To POWERSUPPLY
JF02
-27V
DC+3.5V
Heater
GND
E+5V
+5V_D1
+8V_M1
GND
LF01 BLM11B601S
RF12 0
RF13 NC
RF14 NC
CF12 0.047
CF13 N.C.
CF14 N.C.
LF02 BLM11B601S
CF15 0.1
CF16 47/16V
LF03 BLM11B601S
CF17 0.1
CF18 47/16V
+5.0V
E+5V
SW+5V
RF21 100
CF21 100/16V
CF22 0.1
QF21 DTA114EUA
RF22 N.C.
RF23 100
CF23 100/16V
CF24 0.1
ZF21
IR SENCER

P801
Power Supply

P802


WG21AK3010 (P801)
LPS
T851
F851 T500mA L 250V
F852 T500mA L 250V
F853 T500mA L 250V
1AC11
3AC11
4AC7
5AC7
A1-GND
D861 11EQS10
D863 11EQS10
D864 11EQS10
D862 11EQS10
Q861 BA05T
Q862 BA033T
+8.2V
+5.0V
+5VA
+3.3VD
C861 2200/16V
C862 220/10V
C863 100/10V
A-GND
D871 11EQS10
D872 11EQS10
D873 11EQS10
+13.4V
C871 1000/25V
R879 3.3k
Q874 2SA1048
-8.3V
P_MUTE
R877 47k
R876 10k
R871 1k
R874 47k
R875 47k
D875
R873 3.3M
+8.9V
+1.3V
Q871 2SC2458
Q872 2SC2458
Q875 DTC114TS
R872 12k
C872 0.1/50V
C873 10/63V
+0.7V
L841
D845 11EQS10
Q841 2SA1048
E+6V
R841 47k
R842 4.7k
C844
+3.3V
STB_CTL
Q842 DTC114ES
NORMAL:H
STANDBY:L
GND
D853 11EQS10
D851 11EQS10
D854 11EQS10
D852 11EQS10
C851 1000u/35
C852 1000u/35
Q853 2SD1415A
Q854 2SB1020A
+13.2V
-13.2V
+8.3V
+8VA
-8VA
R851 1k
R852 1k
C853 47/25
C854 47/25
D857
D855 10V
D856 10V
D858
C855
C856
TO AUDIO
TO J201 (PA01)
J852
+8VA
A-GND
A-GND
-8VA
TO J202 (PA01)
J853
-8VDA
P_MUTE
+5VA
DAC-GND
DAC-GND
+3.3VD
-10.1V
+5.0V
LPS
S801
J803
W802
J802
F801 T2.5A L 250V
WG21AK2040 (P802)
J001 R-301
W801
J801
N
L
L008 TFCR-23-11-14
W001
C801 0.1/250V
L801 LF-4D-223
C802 0.1/250V
C803
C804
F-GND
R801
D801 S1WB(A)60
C805
HOT
R802
R803
R804
R805
R806 68
D802
+14.0V
D803 22V
R808 10
C807 22/50V
Q801 2SK2943
R807 10k
C806
C821 NC
R811 10 1W
R809 47 1W
R812 0.22 2W
R810 120k
C808 0.33
C809 0.22
R813
Q802 FA3647
R814 56k
R815 100
R816 150
C810 4700p
T801
D809 AG01
D804 AG01
Q809 2SC1627
R832 JUMPER
R825 4.7k
R826 680
D818 20V
D819 9.1V
D805 9.1V 18V
D806
C815 47/50V
R827 10k
C814 47/50V
D810 9.1V
+5V_D1
TO FRONT PCB
TO J701 (PM01)
J811
-27V
DC+3.5V
HEATER
GND
E+5V
+5V_D1
-8V_M1
GND
D807 AG01
F802 T250mA/250V
Q814 2SC1627
R829 3.3
R828 4.7k
D808 20V
R830 680
C816 220/10V
C817 0.1
C818 0.1
R831 10k
Q813 2SC2458
D811 RK46
D812 RK46
F803 T3.15A L 250V
+4.6V
L804 BL02RN2
C819 1000/16V
C820 220/10V
TO VIDEO PCB
J808
+12V_M1
GND
GND
E+6V
E+6V
D814 RK46
D815 RK46
+5.8V
L803 47
C821 1000/16V
C822 470/10V
C828 0.1
Q806 SI-3050C
C823 220/10V
+5.0V
Q807 SI-3050C
C826 220/10V
D841
R843 22k
C841 10/63V
STB_CTL
TO MAIN PCB
J805
E+4V
E+4V
GND
GND
E+6V
STB_CTL
GND_D1
GND_D1
+5V_D1
+5V_D1
GND_D2
+5V_D2
+12V_M1
+12V_M3
+8V_M1
R818 470
R817 220
C811 0.1
Q803 PC123F2
R819 1k
R821 JUMPER
R820 3.3k
C813 1 100V
R822 6.19k F
Q804 TL431
+2.5V
R823 4.64k F
C812 220/250V
J806
J809
EARTH
D817 EK19
+12.5V
C824 470/25V
C830 0.1
Q808 SI-3120F
+12.0V
C825 220/16V
Q812 NJM7808FA
+8.0V
C829 220/16V
W821
EARTH
V: PLAY

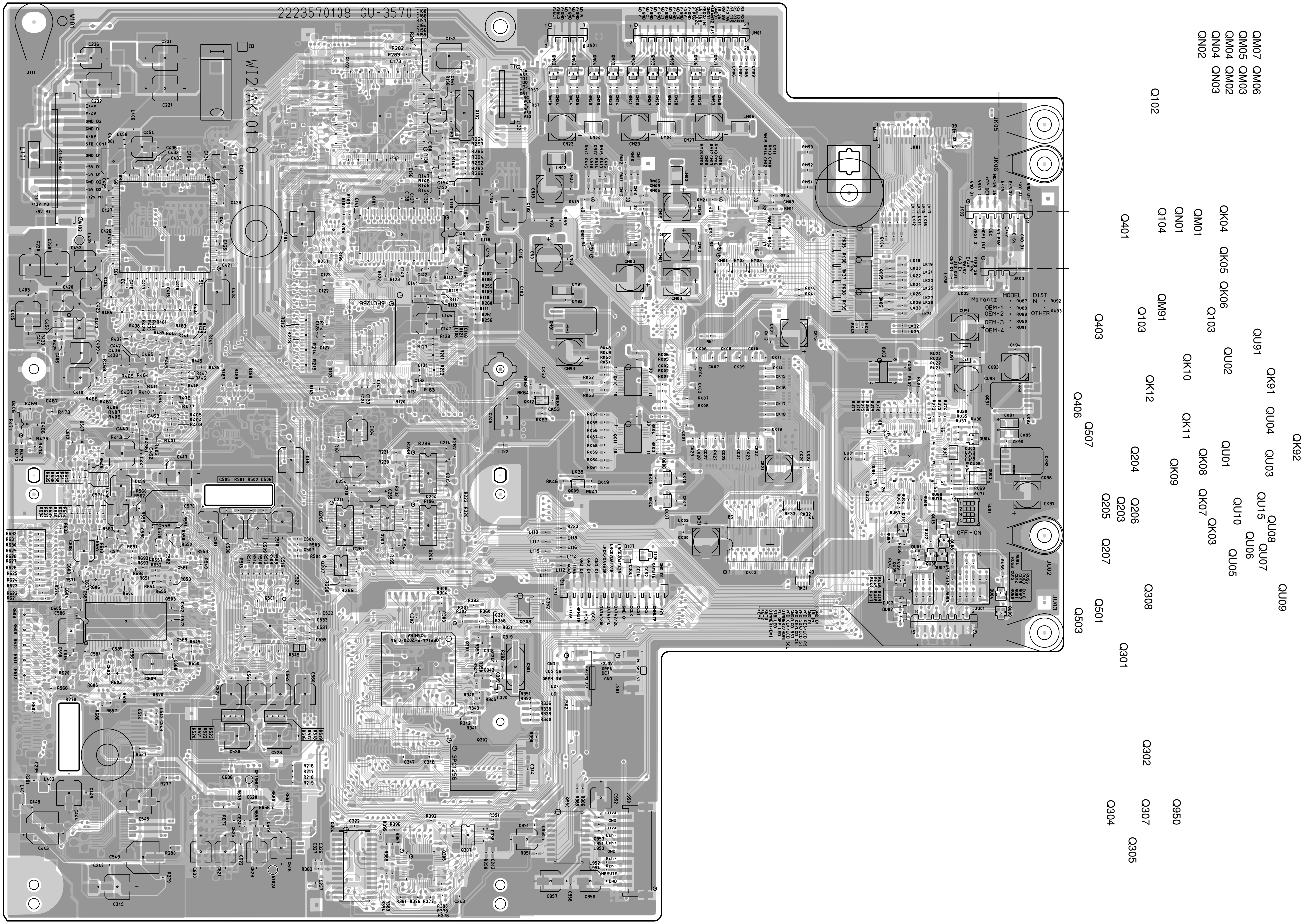
	Ver. F,U,L	Ver. N,S,C
C803,04	470p/250V	220p/250V
C805	220/200V	120/400V
R801	2.2M/1/2W	1M/1W
C855,56	220/25V	220/16V
C806	150p/2kV	100pF 2kV
R802,03 R804,05	220k	330k
R813	330k	270k
C844	0.01UF AC250V	4700p AC250V

F:Japan
U:USA,Canada
L:Taiwan
N:Europe
S:Singapore
C:Korea

NOTE ON SAFETY:
The parts marked with ⚠ are important parts on the safety.
Please use the parts having the designated parts number without fail.

14. PARTS LOCATION

PM01 A


2223570108 GU-3570
QM07 QM06
QM05 QM03
QM04 QM02
QN04 QN03
QN02
Q102
QK04
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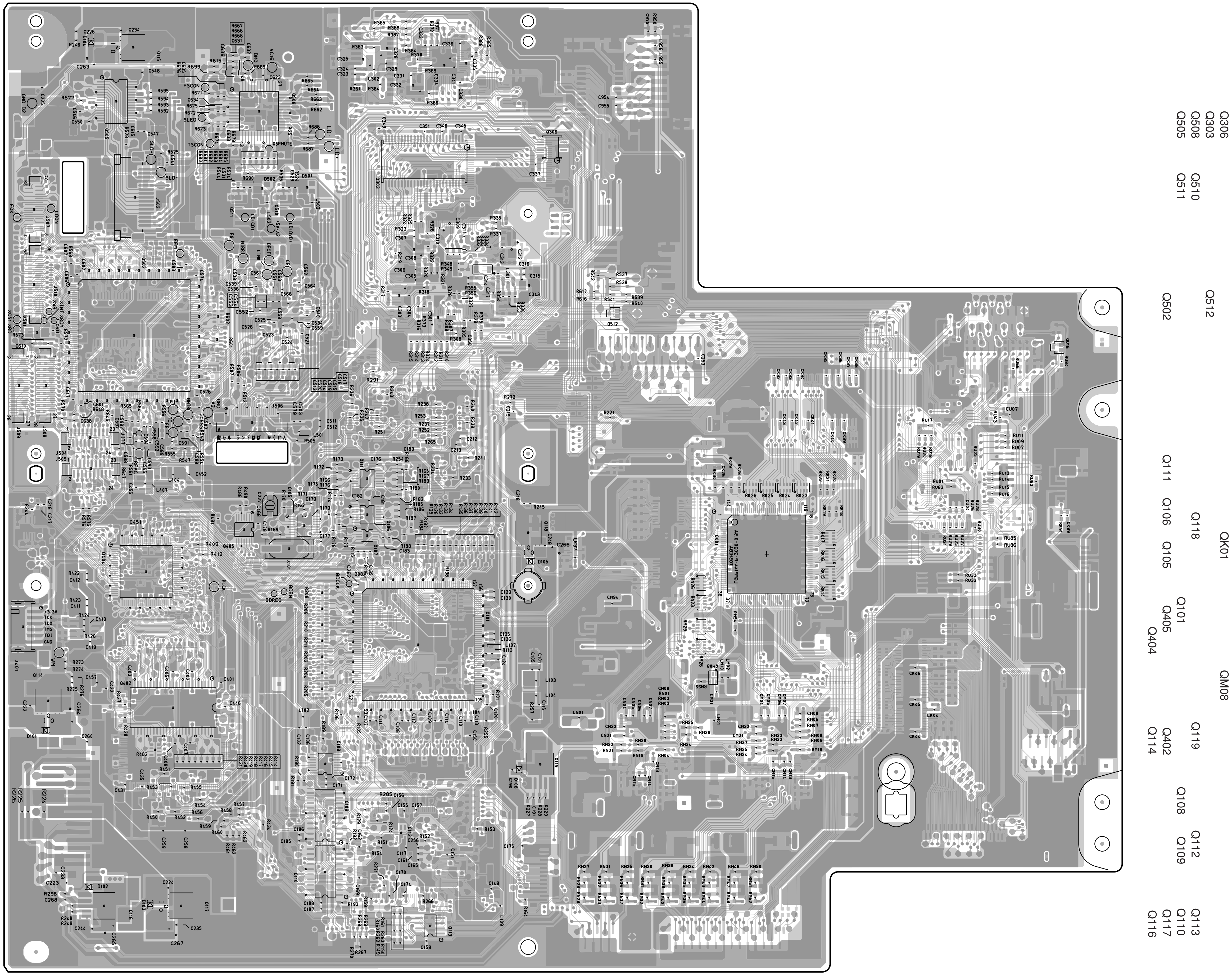
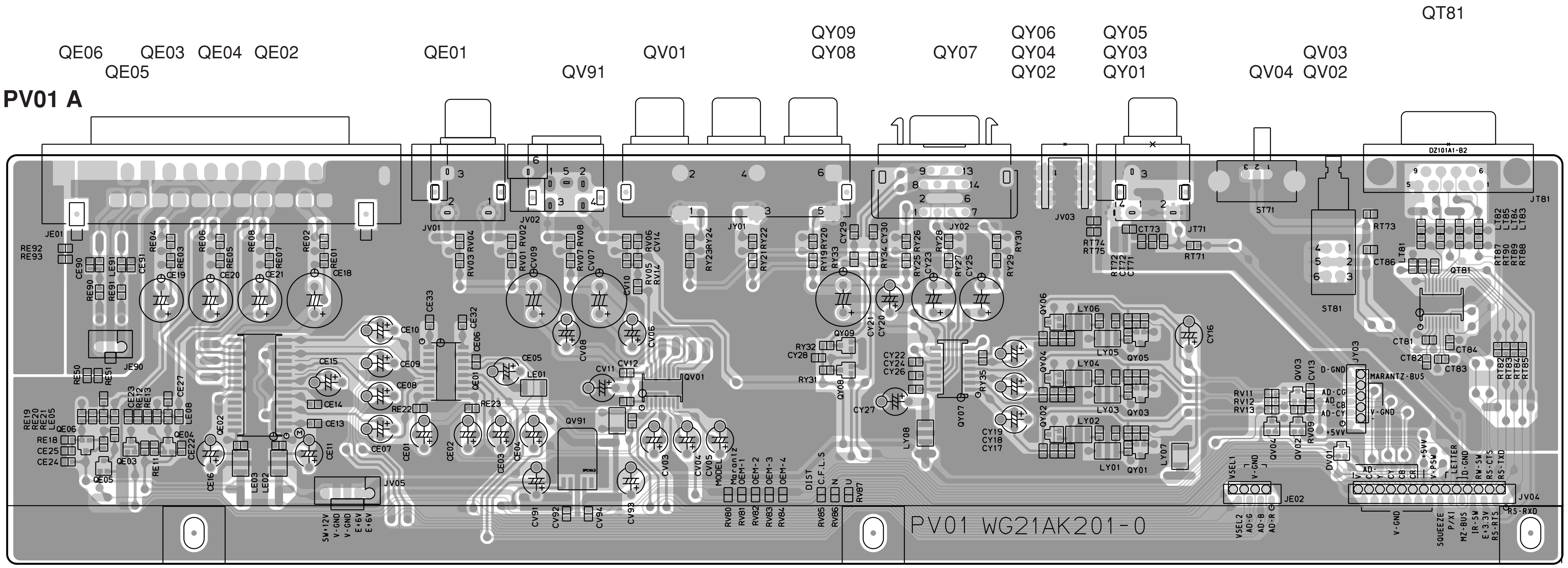
QN01
Q104
Q401
QK05
QK06
QM91
Q103
Q103
Q403
QU91
QU02
QK10
QK91
QK12
Q406
Q507
QU04
QK11
QK92
Q204
QU01
QU03
QK08
QK09
Q206
QK07
QU15
QU10
Q205
Q203
QU08
QK03
QU06
QU07
Q207
QU05
Q308
QU09
Q501
Q503
Q301
Q302
Q950
Q307
Q304
Q305

PM01 B

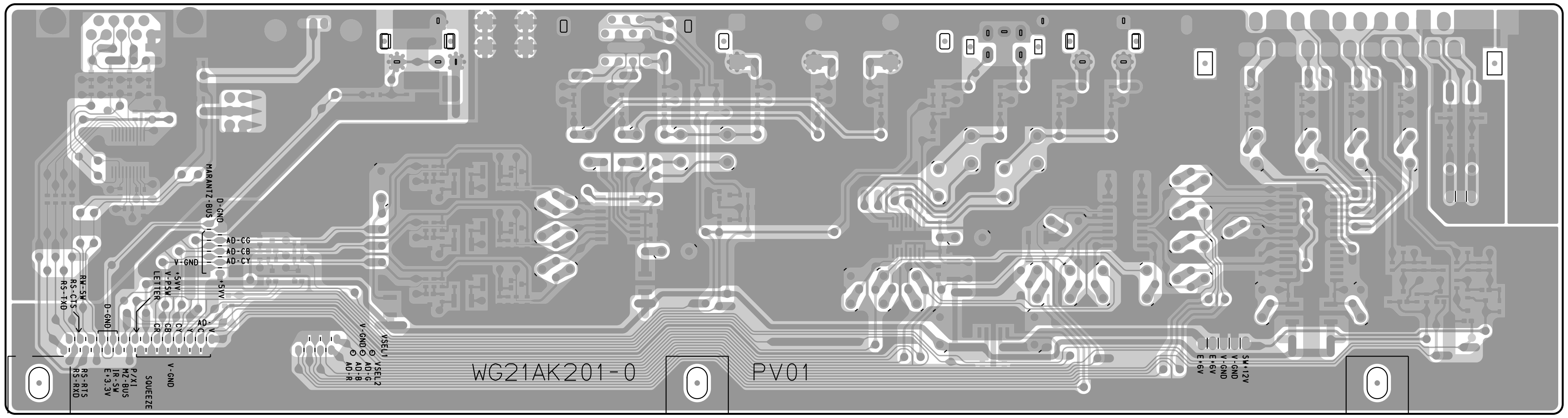


Q306
Q303
Q508
Q505
Q510
Q511
Q512
Q502
QU16
Q111
Q118
Q106
QK01
Q105
Q101
Q405
Q404
QM08
Q119
Q402
Q114
Q108
Q112
Q109
Q113
Q110
Q117
Q116

PV01 A


QT81
QY09
QY08
QY06
QY04
QY02
QY05
QY03
QY01
QE06
QE05
QE03
QE04
QE02
QE01
QV91
QV01
QY07
QV04
QV03
QV02
PV01 WG21AK201-0

PV01 B


WG21AK201-0
PV01

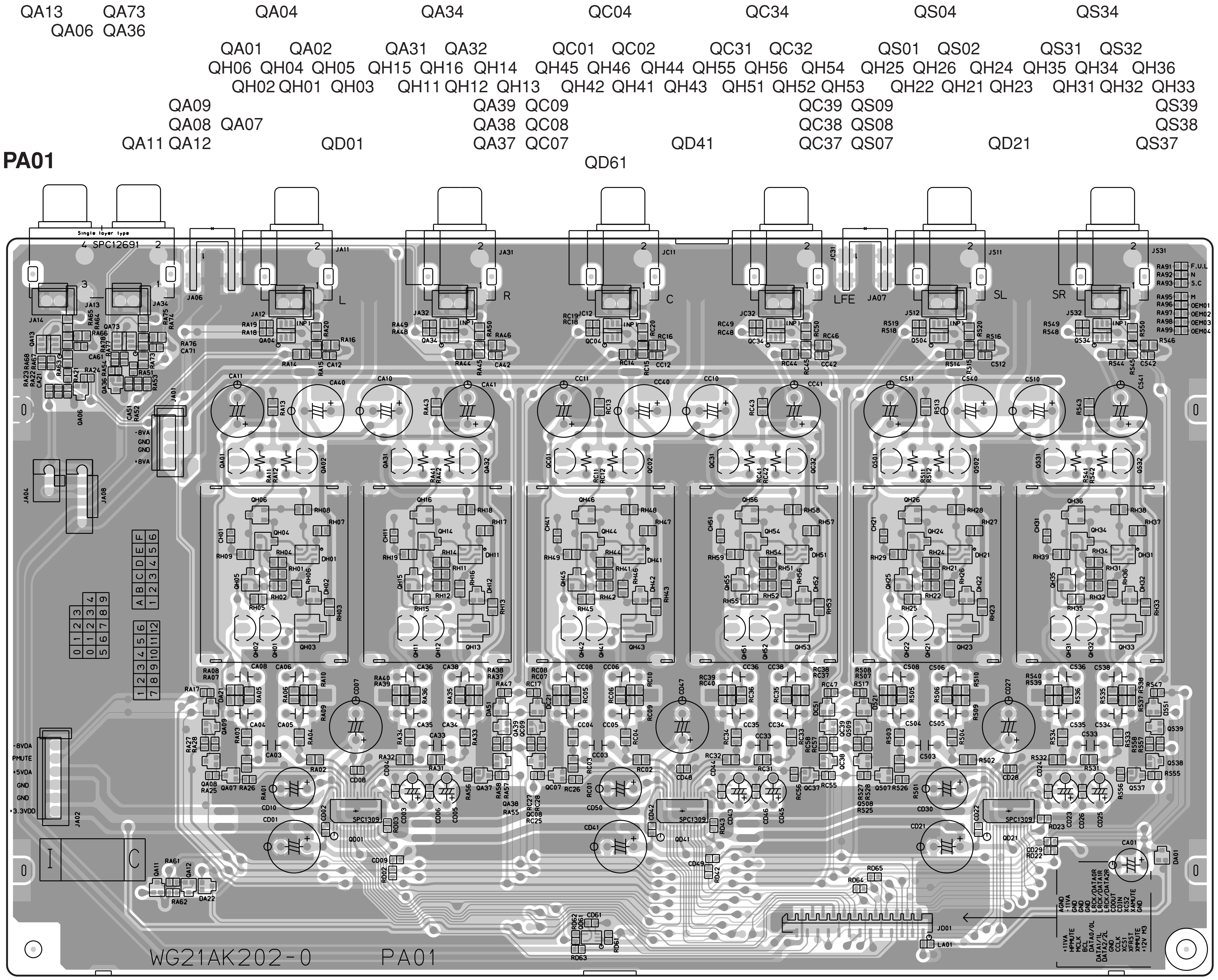
鉛フリー半田

半田付けには、鉛フリー半田（Sn-Ag-Cu）を使用してください。

Lead-free Solder

When soldering, use the Lead-free Solder (Sn-Ag-Cu).

PA01


QA13 QA73
QA06 QA36
QA04
QA34
QC04
QC34
QS04
QS34
QA01 QA02
QH06 QH04 QH05
QH02 QH01 QH03
QA31 QA32
QH15 QH16 QH14
QH11 QH12 QH13
QC01 QC02
QH45 QH46 QH44
QH42 QH41 QH43
QC31 QC32
QH55 QH56 QH54
QH51 QH52 QH53
QS01 QS02
QH25 QH26 QH24
QH22 QH21 QH23
QS31 QS32
QH35 QH34 QH36
QH31 QH32 QH33
QA09
QA08 QA07
QA11 QA12
QD01
QA39 QC09
QA38 QC08
QA37 QC07
QD61
QD41
QC39 QS09
QC38 QS08
QC37 QS07
QD21
QS39
QS38
QS37
WG21AK202-0 PA01

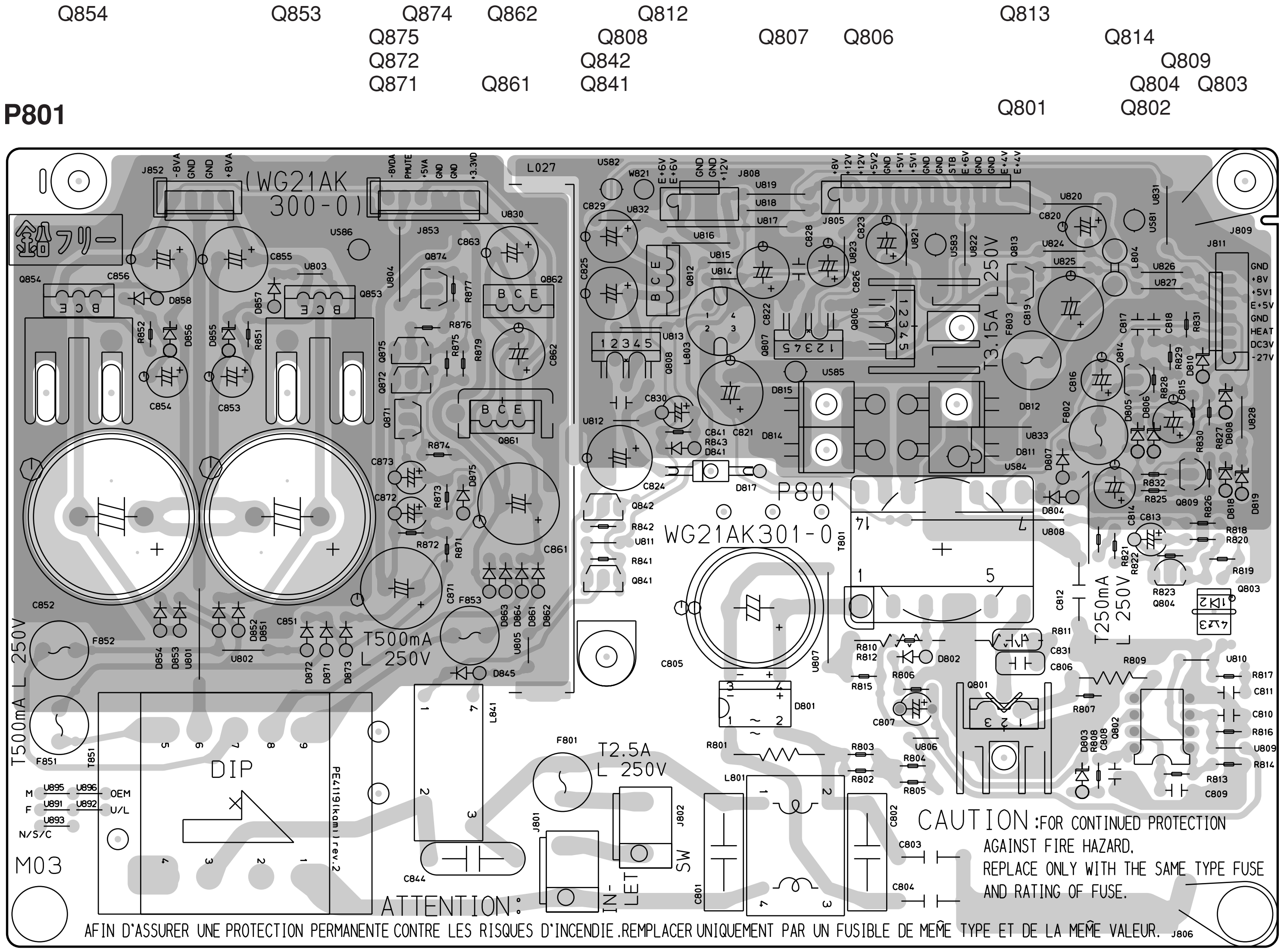
鉛フリー半田

半田付けには、鉛フリー半田（Sn-Ag-Cu）を使用してください。

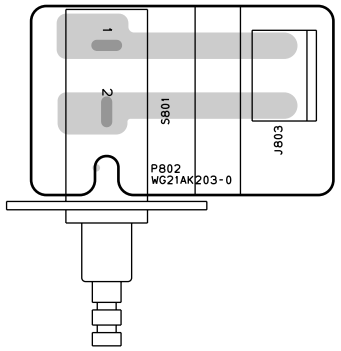
Lead-free Solder

When soldering, use the Lead-free Solder (Sn-Ag-Cu).

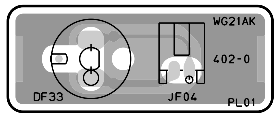
P801


Q854
Q853
Q874
Q875
Q872
Q871
Q862
Q861
Q812
Q808
Q842
Q841
Q807
Q806
Q813
Q801
Q814
Q809
Q804
Q803
Q802
WG21AK 300-0
P801 WG21AK301-0
T500mA L 250V
T2.5A L 250V
T3.15A L250V
T250mA L 250V
DIP
M03
CAUTION :FOR CONTINUED PROTECTION AGAINST FIRE HAZARD. REPLACE ONLY WITH THE SAME TYPE FUSE AND RATING OF FUSE.
ATTENTION: AFIN D'ASSURER UNE PROTECTION PERMANENTE CONTRE LES RISQUES D'INCENDIE.REMPLACER UNIQUEMENT PAR UN FUSIBLE DE MEME TYPE ET DE LA MEME VALEUR.

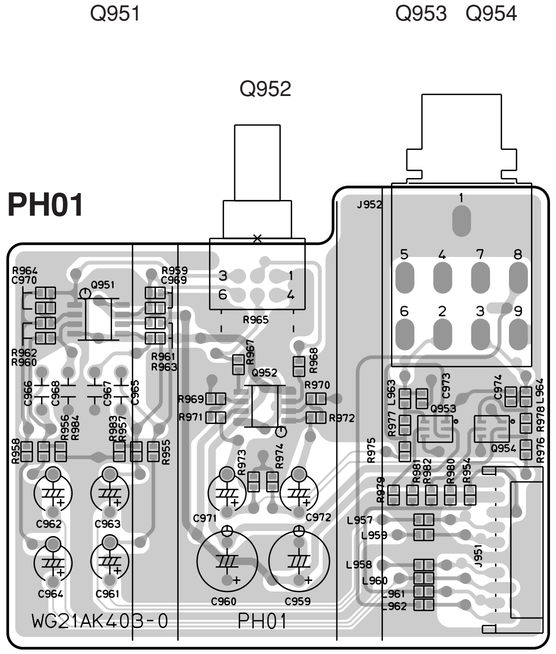
P802


S801
J803
P802 WG21AK203-0

PL01


WG21AK 402-0
DF33
JF04
PL01

PH01


Q951
Q952
Q953
Q954
J952
WG21AK403-0
PH01

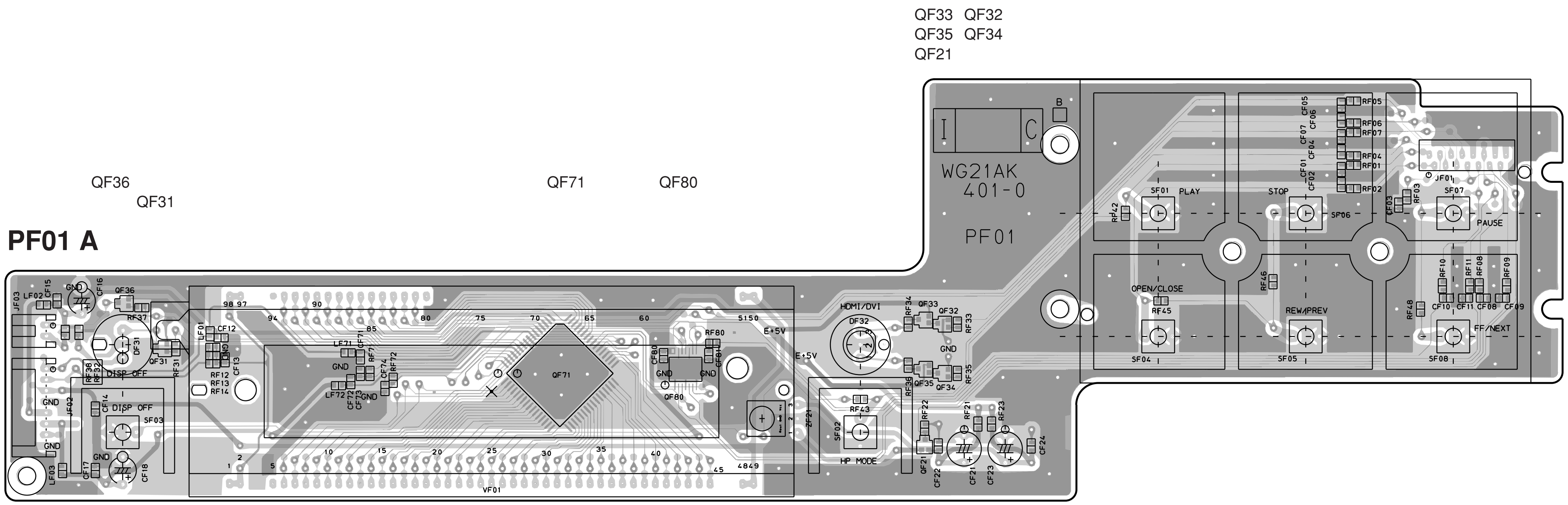
鉛フリー半田

半田付けには、鉛フリー半田（Sn-Ag-Cu）を使用してください。

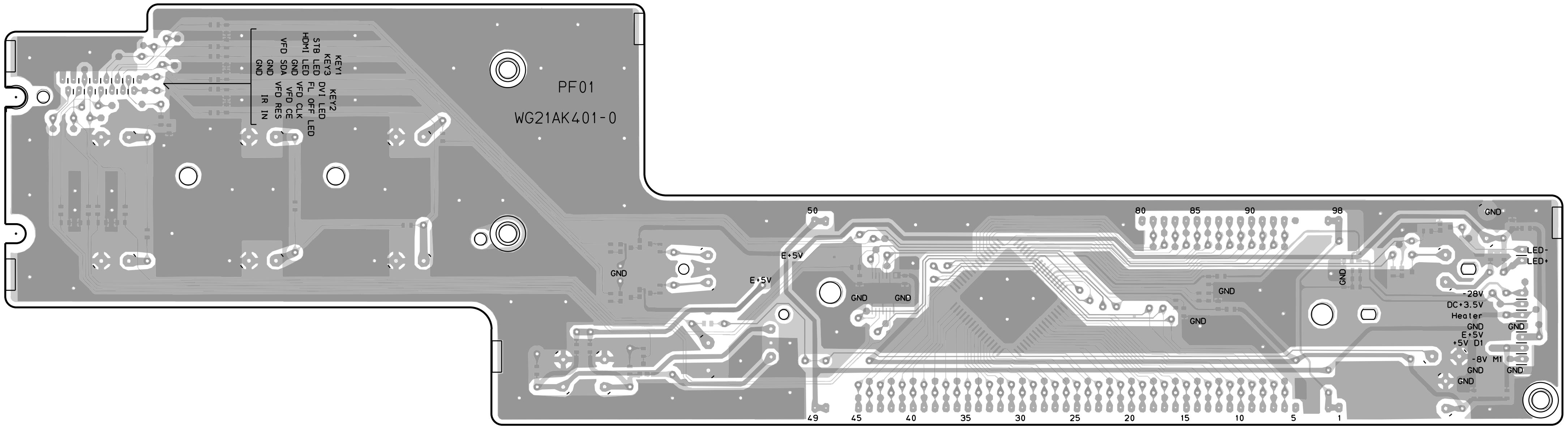
Lead-free Solder

When soldering, use the Lead-free Solder (Sn-Ag-Cu).

PF01 A


QF33 QF32
QF35 QF34
QF21
QF36
QF31
QF71
QF80
WG21AK
401-0
PF01
SF01 PLAY
STOP
SF06
SF07
PAUSE
OPEN/CLOSE
REW/PREV
FF/NEXT
SF04
SF05
SF08
HDMI/DVI
DF32
DISP OFF
SF03
HP MODE
SF02
VF01
E+5V
GND

PF01 B


PF01
WG21AK401-0
KEY1
KEY2
KEY3
STB LED
DVI LED
HDMI LED
FL OFF LED
GND
VFD CLK
VFD SDA
VFD CE
VFD RES
IR IN
GND
E+5V
LED-
LED+
-28V
DC+3.5V
Heater
E+5V
+5V D1
-8V M1

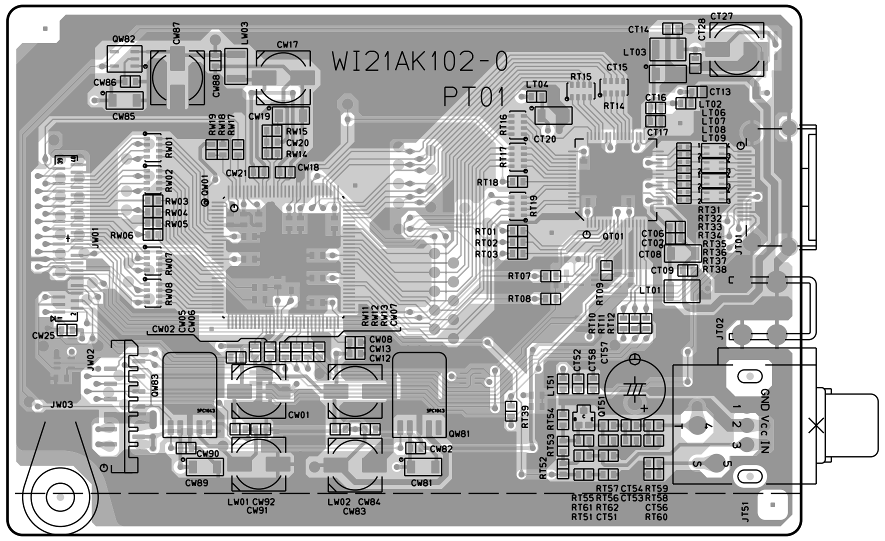
鉛フリー半田

半田付けには、鉛フリー半田（Sn-Ag-Cu）を使用してください。

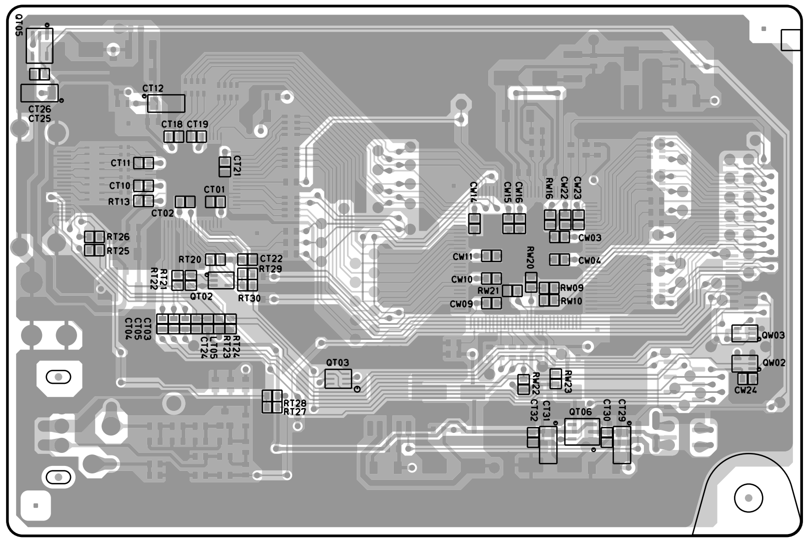
Lead-free Solder

When soldering, use the Lead-free Solder (Sn-Ag-Cu).

PT01 A


QW82
QW01
QT01
QW83
QW81
QT51
WI21AK102-0
PT01

PT01 B


QT05
QT02
QT03
QW03
QT06
QW02

15. MICROPROCESSOR AND IC DATA

QU01: H8S/2238R

Pin	PORT	Signal name	I/O	Contents of control	
1	PE5/D5	V_PSW	O	Power supply control for VIDEO.	L
2	PE6/D6	P/XI	O	Prograssive=H	
3	PE7/D7	N.C.	I		
4	PD0/D8	DB4	O	LCD DRIVER DATA 4	
5	PD1/D9	DB5	O	LCD DRIVER DATA 5	
6	PD2/D10	DB6	O	LCD DRIVER DATA 6	
7	PD3/D11	DB7	O	LCD DRIVER DATA 7	
8	PD4/D12	E	O	Write enable for LCD DRIVER	
9	PD5/D13	R/W	O	Read/Write for LCD DRIVER	
10	PD6/D14	RS	O	Instruction for LCD DRIVER, Select data	
11	PD7/D15	N.C.	I		
12	CVCC				
13	PC0/A0	N.C.	I		
14	VSS				
15	PC1/A1	STB_CONT	O	STB=L, POWER=H	L
16	PC2/A2	STB_LED	O	LED for standby	H
17	PC3/A3	FL_OFF_LED	O	LED for FL OFF	H
18	PC4/A4	DHD	I	Head Phone detection port, Head Phone=L	L
19	PC5/A5	BYPASS	O	A.DSP bypass signal, Bypass=L	L
20	PC6/A6	N.C.	I		
21	PC7/A7	N.C.	I		
22	PB0/A8/TIOCA3	VRST_1	O	Reset for CD0040AF	L
23	PB1/A9/TIOCB3	VRST_2	O	Reset for ADV7314/7310	L
24	PB2/A10/TIOCC3	VRST_3	O	Reset for PD0280B (Scaler)	L
25	PB3/A11/TIOCD3	VRST_4	O	Reset for Sil9290 (HDMI)	L
26	PB4/A12/TIOCA4	N.C.	I		
27	PB5/A13/TIOCB4	N.C.	I		
28	PB6/A14/TIOCA5	MC_RST	O	Reset for B/E	L
29	PB7/A15/TIOCB5	B/EON	I	STB mode input port for B/E	
30	PA0/A16	N.C.	I		
31	PA1/A17/TxD2	DATAO_OP	O	Data output port for B/E	
32	PA2/A18/RxD2	DATAI_OP	I	Data input port for B/E	
33	PA3/A19/SCK2	CLK_OP	O	Clock input port for B/E	
34	P10/TIOCA0/DACK0/A20	IR_IN	I	Input capture	
35	P11/TIOCB0/DACK1/A21	N.C.	I		
36	P12/TIOCC0/TCLKA/A22	N.C.	I		
37	P13/TIOCD0/TCLKB/A23	N.C.	I		
38	P14/TIOCA1/IRQ0	CS_OP	I	External interruption (Chip selection input port for B/E)	
39	P15/TIOCB1/TCLKC	/DFRES	I	Circumference IC.)	
40	P16/TIOCA2/IRQ1	DSPREQ1	I	Interruption REQ1 for ADSP	
41	P17/TIOCB2/TCLKD	N.C.	I		
42	AVSS	GND			
43	P97/DA1	N.C.	I		
44	P96/DA0	N.C.	I		
45	P47/AN7	BIT2	I	Version distinction 3	
46	P46/AN6	BIT1	I	Version distinction 2	
47	P45/AN5	BIT0	I	Version distinction 1	
48	P44/AN4	SELECT	I	Model distinction	L:DV8500 H:OEM
49	P43/AN3	KEY4	I	KEY_4 input	
50	P42/AN2	KEY3	I	KEY_3 input	
51	P41/AN1	KEY2	I	KEY_2 input	
52	P40/AN0	KEY1	I	KEY_1 input	
53	Vref				
54	AVCC				
55	MD0				
56	MD1				
57	OSC2				
58	OSC1				
59	RES	CPU_RST		CPU reset signal	

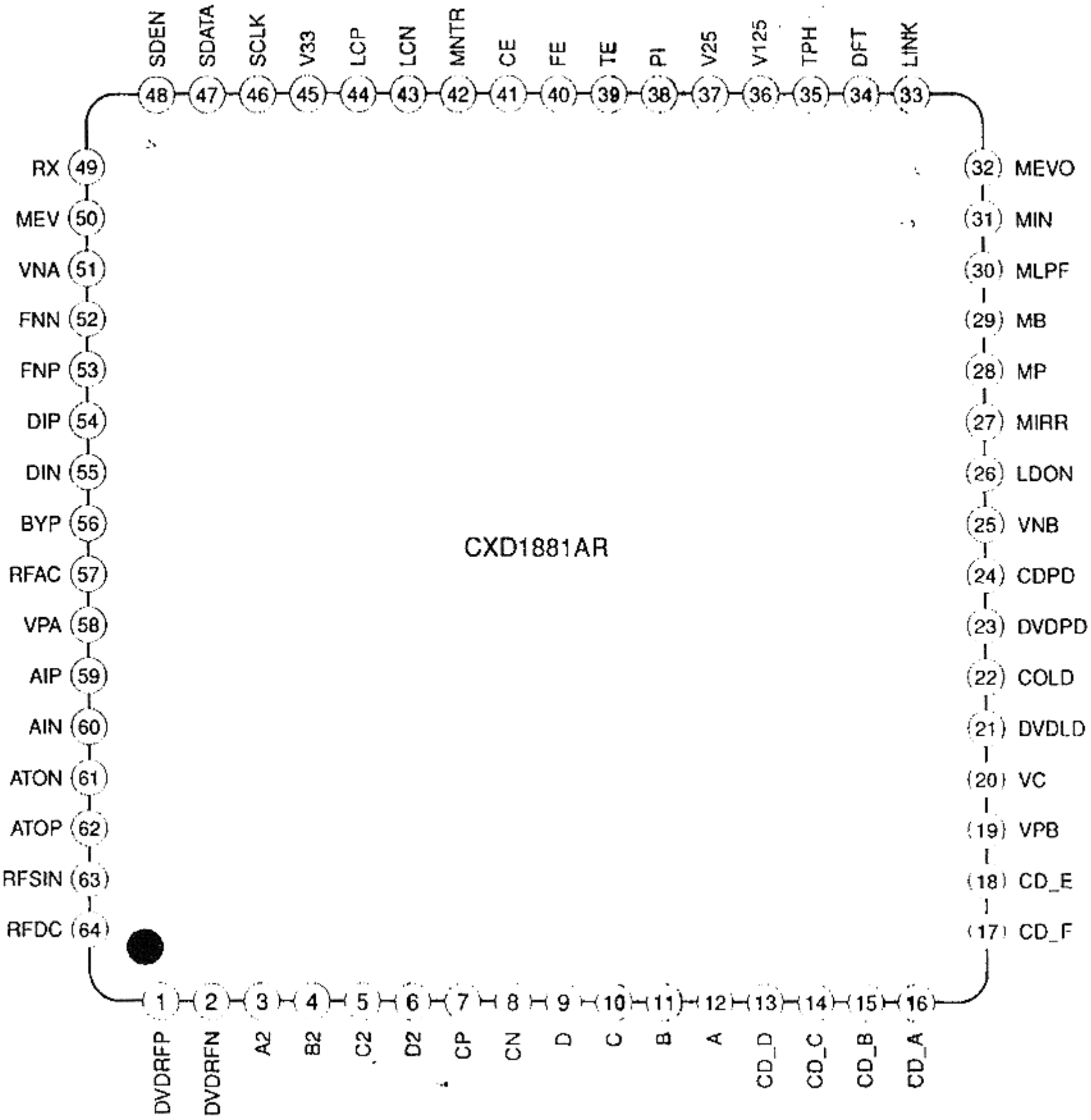
Pin	PORT	Signal name	I/O	Contents of control	
60	**NMI**				
61	STBY				
62	VCC			Power supply	
63	XTAL				
64	VSS	GND			
65	EXTAL				
66	"FEW"				
67	MD2				
68	PF7	VFD_CLK	O	Clock output port for LC75712.	Software serial
69	PF6	VFD_CE	O	Chip enable output port for LC75712.	
70	PF5/RD	VFD_SDA	O	Data output port for LC75712.	Software serial
71	PF4/HWR	VFD_RES	O	Reset for LC75712.	
72	PF3/LWR/ADTRG/IRQ3	KEY4	I	External interruption (POWER/STANDBY SW detection)	
73	PF2/WAIT	N.C.	I		
74	PF1/BACK/BUZZ	CTS	I	CTS input of RS232C	
75	PF0/BREQ/IRQ2	RTS	O	RTS input of RS232C	
76	P30/TxD0	RS_TXD/TXD2	O	RS232C output	
77	P31/RxD0	RS_RXD/RXD2	I	RS232C input	
78	P32/SCK0/SDA1/IRQ4	SDA1	I/O	EEPROM/ADV7310/ADV7314	
79	P33/TxD1/SCL1	SCL1	O	EEPROM/ADV7310/ADV7314	
80	P34/RxD1/SDA0	SDA2	I/O	HDMI	
81	P35/SCK1/SCL0/IRQ5	SDA2	O	HDMI	
82	P36	SCS	O	Chip selection port for A.DSP.	
83	P77/TxD3	DSPDOUT	O	Serial data output port for A.DSP.	
84	P76/RxD3	DSPDIN	I	Serial data input port for A.DSP.	
85	P75/TMO3/SCK3	DSPCLK	O	Clock output port for A.DSP.	
86	P74/TMO2/MRES	FCS	O	Chip selection port for A.DSP.	L
87	P73/TMO1/TEND1/CS7	HINBSY	I		
88	P72/TMO0/TEND0/CS6	RSTDSP	O	Reset for A.DSP.	L
89	P71/TMRI23/TMCI23/DREQ1/CS	FILT_SEL	I	Audio DAC detection	
90	P70/TMRI01/TMCI01/DREQ0/CS	DIR_DSD	I	Audio DAC detection	
91	PG0/IRQ6	DSPREQ2	I	Interruption REQ2 for ADSP	
92	PG1/CS3/IRQ7	HDMI_INT	I	Interruption signal for SiI9190	L
93	PG2/CS2	CCLK	O	Clock for CS4398 DAC	Software serial
94	PG3/CS1	CDOUT	O	Data output port for CS4398 DAC	Software serial
95	PG4/CS0	CDIN	I	Data input for CS4398 DAC	Software serial
96	PE0/D0	CS1	O	Chip selection port for CS4398 DAC	L
97	PE1/D1	CS2	O	Chip selection port for CS4399 DAC	L
98	PE2/D2	RST	O	Reset for CS4398 DAC	L
99	PE3/D3	DAC_MUTE1	O	Mute for audio	L
100	PE4/D4	DAC_MUTE2	O	Mute for audio	L

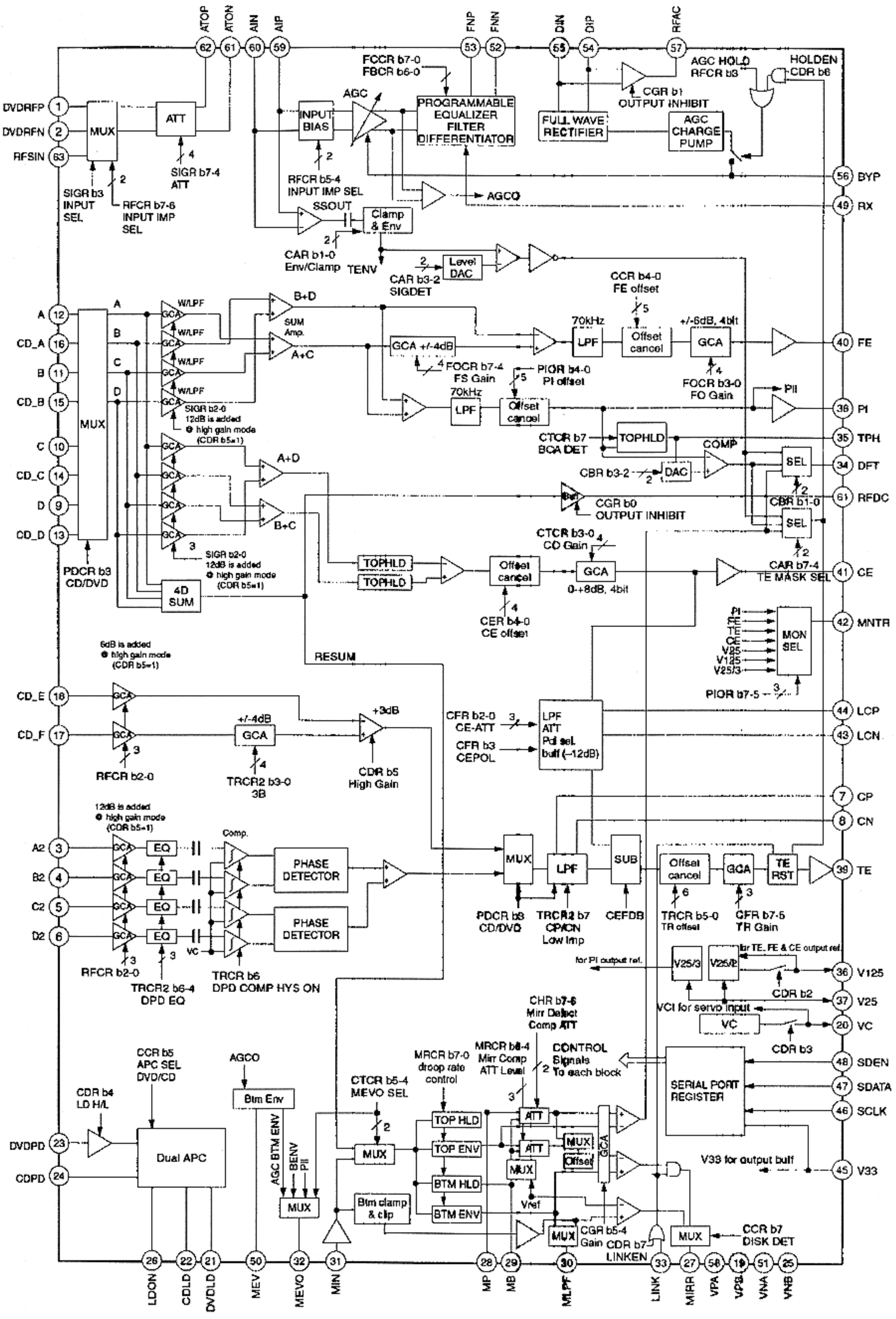
PM01 / Q102(Back End microprocessor) : M32102S6FP

Pin	PORT	SIGNAL NAME	I/O	DESCRIPTION
1	SBI#	---	I	PULL UP
2	DBI#	DBI	I	JTAG
3	TDO	TDO	O	JTAG
4	TDI	TDI	I	JTAG
5	TMS	TMS	I	JTAG
6	TCK	TCK	I	JTAG
7	TRSYNC#	N.C.	O	
8	EVENT1	N.C.	O	
9	EVENT0	N.C.	O	
10	VSS	GND		
11	BCLK	N.C.	O	
12	VCCX	+3.3V		
13	MODE1	---	I	PULL UP
14	MODE0	---	I	GND
15	TRST#	MC_TRST	I	JTAG
16	RESET#	MC_RST	I	Reset signal for the microprocessor. RESET=L
17	VCC	+2.5V		
18	XIN	27MHz	I	System clock input (27MHz)
19	VSS	GND		
20	XOUT	N.C.	O	System clock output. (27MHz)
21	PLLVCC	+2.5V		Power supply for PLL.
22	PLLCAP	---	I	Filter for PLL.
23	PLLVSS	GND		GND for PLL
24	P56/SCLK1	DRVCLK	O	Clock output to CXD1185.
25	P54/TXD1	DRVRX	O	Serial data output to CXD1185.
26	P55/RXD1	DRVTX	C	Input serial data from CXD1185.
27	VCCX	+3.3V		
28	TEST	GND		
29	TRCLK	N.C.	O	
30	VSS	GND		
31	P57/CTS1#/RTS1#	DRVRDY	I	Ready signal from CXD1185. Ready=L
32	P52/SCLK0	CLK_OP	O	Clock output for serial transmission to panel microprocessor.
33	TRDATA0	N.C.	O	
34	P50/TXD0	DATAI_OP	O	Serial data output to panel microprocessor.
35	P51/RXD0	DATAO_OP	I	Serial data input from panel microprocessor.
36	P53/CTS0#/RTS0#	CS_OP	O	Chip select output to panal microprocessor.
37	P71/INT0	DRVIRQ	I	The interruption demand from CXD1185. Interruption=L
38	P72/INT1	MC_INTR	I	The interruption demand from M65776. Interruption=L
39	P73/INT2	MC_INT2	I	The interruption demand from M65776. Interruption=L
40	TRDATA1	N.C.	O	
41	P74/INT3	SVA_INT3	I	The interruption demand from M65776. Interruption=L
42	VCCX	+3.3V		
43	VSS	GND	I	
44	P75/INT4/MFT0A/MFT2B	SELDSD	O	DSD selection output. DSD=H
45	P76/INT5/MFT1A/MFT0B	DSDRST	O	Reset signal for the CXD2753. RESET=L
46	TRDATA2	N.C.	O	
47	P77/INT6/MFT2A/MFT1B	V_CONT	O	Tray control output. (PWM)
48	TRDATA3	N.C.	O	
49	D31/P47	N.C.	O	
50	D30/P46/RTS4#	N.C.	O	
51	D29/P45/CTS4#	MSREADY	I	Ready signal output to CXD2753. Completion=L
52	VCC	+2.5V		
53	D28/P44/SCLK4	MSCK	O	Clock output to CXD2753.
54	VSS	GND		
55	D27/P43/RXD4	MSDATAO	I	Data input from CXD2753.
56	D26/P42/TXD4	MSDATAI	O	Data output to CXD2753.
57	D25/P41/RTS3#	V_SDA	I/O	IIC data.
58	D24/P40/CTS3#	V_SCL	O	IIC clock
59	TRDATA4	N.C.	O	
60	TRDATA5	N.C.	O	
61	TRDATA6	N.C.	O	
62	VCCX	+3.3V		
63	TRDATA7	N.C.	O	
64	D23/P37/SCLK3	N.C.	O	
65	D22/P36/RXD3	SMUTE	O	MUTE for CXD2753. MUTE ON=H
66	D21/P35/TXD3	N.C.	O	
67	D20/P34/RTS2#	---	I	PULL DOWN
68	D19/P33/CTS2#	/DFRES	O	Initialization on a panel microprocessor. Completion=L
69	D18/P32/SCLK2	XMSLAT	O	Latch output to CXD2753•
70	D17/P31/RXD2	CDDA	O	Select CDDA direction. Direct=H
71	VSS	GND		
72	D16/P30/TXD2	B/EON	O	B/E state Standby=L, Power ON=H

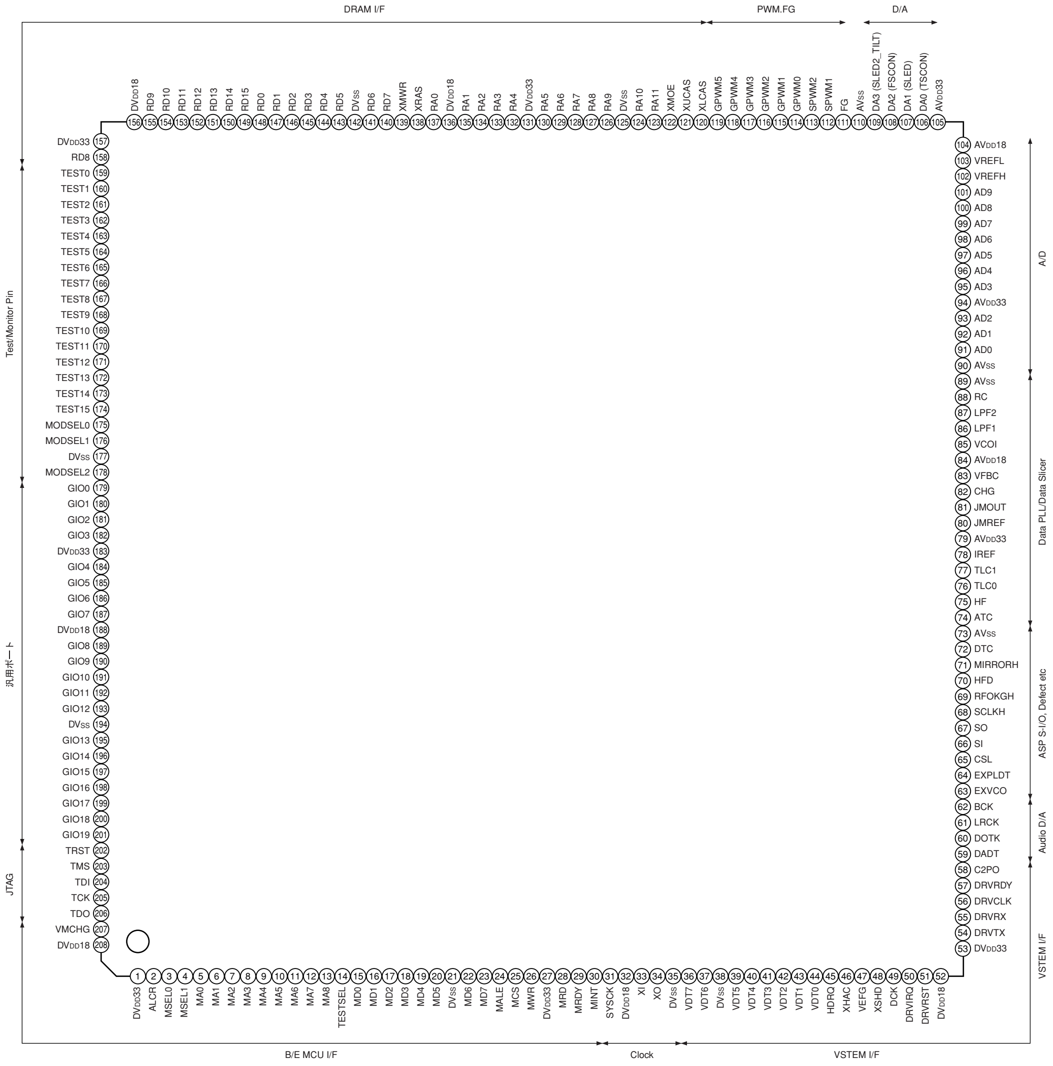
Pin	PORT	SIGNAL NAME	I/O	DESCRIPTION
73	D15	HD15	I/O	Data I/O
74	D14	HD14	I/O	Data I/O
75	D13	GD13	I/O	Data I/O
76	VCCX	+3.3V		
77	D12	HD12	I/O	Data I/O
78	D11	HD11	I/O	Data I/O
79	D10	HD10	I/O	Data I/O
80	VSS	GND		
81	D9	HD9	I/O	Data I/O
82	D8	HD8	I/O	Data I/O
83	D7	HD7	I/O	Data I/O
84	D6	HD6	I/O	Data I/O
85	D5	HD5	I/O	Data I/O
86	D4	HD4	I/O	Data I/O
87	D3	HD3	I/O	Data I/O
88	D2	HD2	I/O	Data I/O
89	D1	HD1	I/O	Data I/O
90	D0	HD0	I/O	Data I/O
91	ROMSZ	GND	I	PULL DOWN
92	VSS	GND		
93	HLDA#	N.C.	O	
94	HOLD#	---	I	PULL UP
95	VCCX	+3.3V		
96	BSEL0#	FROMCS	O	Chip enable to FlashROM
97	P03/BSEL1#	MC_BSEL1	O	Chip selection to M65776.
98	P04/BSEL2#	N.C.	O	
99	P05/BSEL3#	N.C.	O	
100	P06/BSEL4#	N.C.	O	
101	P07/BSEL5#	N.C.	O	
102	READY#	MC_RDY	I	Ready signal from M65776.
103	P17/RD/WR#	N.C.	O	
104	RS#	MC_RS	O	output enable to Flash ROM.
105	WS0#/DQM0	MC_WS0	O	Byte High Enable signal output
106	WS1#/DQM1	MC_WS1	O	Enable output of extended port
107	WS2#/DQM2/A30	A30	O	Address output
108	P27/WS3#/DQM3	DRVRST	O	Reset signal output to CXD1885. Reset=L
109	P67/DWE#	OPN_DRV	O	Tray Open/Close control output
110	P66/DCAS#	CLS_DRV	O	Tray Open/Close control output
111	P65/DRAS#	OPN_SW	I	Tray open detection signal. Detection=L
112	P64/DCAS1#	CLS_SW	I	Tray close detection signal. Detection=L
113	VCCX	+3.3V		
114	P63/DCS0#	RESET	O	Reset signal output to M65776. Reset=L
115	P62/DCKE	AMUTE	O	Audio mute control output. MUTE ON=L
116	A29/MA0	A29	O	Address output
117	A28/MA1	A28	O	Address output
118	A27/MA2	A27	O	Address output
119	A26/MA3	A26	O	Address output
120	A25/MA4	A25	O	Address output
121	VSS	GND		
122	A24/MA5	A24	O	Address output
123	A23/MA6	A23	O	Address output
124	A22/MA7	A22	O	Address output
125	A21/MA8	A21	O	Address output
126	A20/MA9	A20	O	Address output
127	VCC	+2.5V		
128	VSS	GND		
129	A19/MA10	A19	O	Address output
130	A18/MA11	A18	O	Address output
131	A17/MA12	A17	O	Address output
132	A16/MA13	A16	O	Address output
133	A15	A15	O	Address output
134	VCCX	+3.3V		
135	A14	A14	O	Address output
136	A13	A13	O	Address output
137	A12	A12	O	Address output
138	A11	A11	O	Address output
139	A10	A10	O	Address output
140	A9	A9	O	Address output
141	A8	N.C.	O	
142	VSS	GND		
143	P70	DSD/PCM	O	Select DSD/PCM. PCM=L
144	VCCX	+3.3V		

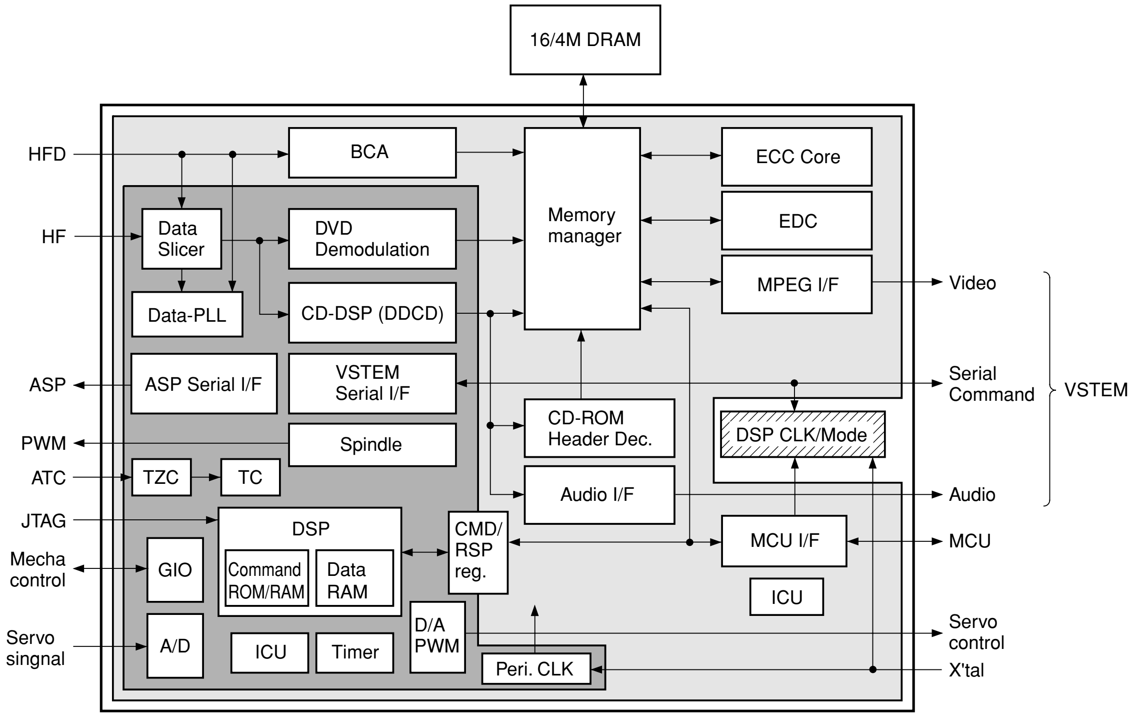
PM01 / Q501: CXD1881AR


CXD1881AR
1 DVDRFP
2 DVDRFN
3 A2
4 B2
5 C2
6 D2
7 CP
8 CN
9 D
10 C
11 B
12 A
13 CD_D
14 CD_C
15 CD_B
16 CD_A
17 CD_F
18 CD_E
19 VPB
20 VC
21 DVDLD
22 COLD
23 DVDPD
24 CDPD
25 VNB
26 LDON
27 MIRR
28 MP
29 MB
30 MLPF
31 MIN
32 MEVO
33 LINK
34 DFT
35 TPH
36 V125
37 V25
38 PI
39 TE
40 FE
41 CE
42 MNTR
43 LCN
44 LCP
45 V33
46 SCLK
47 SDATA
48 SDEN
49 RX
50 MEV
51 VNA
52 FNN
53 FNP
54 DIP
55 DIN
56 BYP
57 RFAC
58 VPA
59 AIP
60 AIN
61 ATON
62 ATOP
63 RFSIN
64 RFDC


ATOP
ATON
AIN
AIP
FNP
FNN
DIN
DIP
RFAC
DVDRFP
DVDRFN
RFSIN
MUX
ATT
SIGR b3
INPUT SEL
RFCR b7-6
INPUT IMP SEL
SIGR b7-4
ATT
FCCR b7-0
FBCR b6-0
AGC
INPUT BIAS
PROGRAMMABLE EQUALIZER FILTER DIFFERENTIATOR
RFCR b5-4
INPUT IMP SEL
SSOUT
Clamp & Env
CAR b1-0
Env/Clamp
TENV
CAR b3-2
SIGDET
Level DAC
AGCO
FULL WAVE RECTIFIER
AGC CHARGE PUMP
CGR b1
OUTPUT INHIBIT
AGC HOLD
RFCR b3
HOLDEN
CDR b6
BYP
RX
A
CD_A
B
CD_B
C
CD_C
D
CD_D
W/LPF
GCA
B+D
SUM Amp.
A+C
SIGR b2-0
12dB is added
high gain mode
(CDR b5=1)
A+D
B+C
4D SUM
PDCR b3
CD/DVD
GCA +/-4dB
FOCR b7-4
FS Gain
70kHz
LPF
Offset cancel
PIOR b4-0
PI offset
CCR b4-0
FE offset
+/-6dB, 4bit
FOCR b3-0
FO Gain
FE
PI
PII
CTCR b7
BCA DET
TOPHLD
COMP
CBR b3-2
DAC
SEL
CBR b1-0
TPH
DFT
RFDC
CGR b0
OUTPUT INHIBIT
CTCR b3-0
CD Gain
0-+8dB, 4bit
CER b4-0
CE offset
CAR b7-4
TE MASK SEL
CE
MON SEL
PI FE TE CE V25 V125 V25/3
PIOR b7-5
MNTR
RESUM
6dB is added
high gain mode
(CDR b5=1)
CD_E
CD_F
RFCR b2-0
+/-4dB
TRCR2 b3-0
3B
+3dB
CDR b5
High Gain
CFR b2-0
CE-ATT
CFR b3
CEPOL
LPF ATT Pol sel. buff (-12dB)
LCP
LCN
CP
CN
A2
B2
C2
D2
EQ
Comp.
VC
PHASE DETECTOR
TRCR2 b6-4
DPD EQ
TRCR b6
DPD COMP HYS ON
MUX
PDCR b8
CD/DVD
TRCR2 b7
CP/CN
Low Imp
SUB
CEFDB
TRCR b5-0
TR offset
CFR b7-5
TR Gain
TE RST
TE
for PI output ref.
V25/3
V25/2
for TE, FE & CE output ref.
CDR b2
V125
V25
VCI for servo input
VC
CDR b3
CHR b7-6
Mirr Detect
Comp ATT
MRCR b8-4
Mirr Comp
ATT Level
MRCR b7-0
droop rate
control
CONTROL Signals To each block
SERIAL PORT REGISTER
SDEN
SDATA
SCLK
CCR b5
APC SEL
DVD/CD
AGCO
Btm Env
CTCR b5-4
MEVO SEL
CDR b4
LD H/L
DVDPD
CDPD
Dual APC
AGC BTM ENV
BENV
PII
TOP HLD
TOP ENV
BTM HLD
BTM ENV
Btm clamp & clip
ATT
Offset
Vref
GCA
CGR b5-4
Gain
CDR b7
LINKEN
V33 for output buff
V33
CCR b7
DISK DET
LDON
CDLD
DVDLD
MEV
MEVO
MIN
MP
MB
MLPF
LINK
MIRR
VPA
VPB
VNA
VNB

PM01 / Q502: CXD1885Q


DRAM I/F
PWM.FG
D/A
156 DVDD18
155 RD9
154 RD10
153 RD11
152 RD12
151 RD13
150 RD14
149 RD15
148 RD0
147 RD1
146 RD2
145 RD3
144 RD4
143 RD5
142 DVSS
141 RD6
140 RD7
139 XMWR
138 XRAS
137 RA0
136 DVDD18
135 RA1
134 RA2
133 RA3
132 RA4
131 DVDD33
130 RA5
129 RA6
128 RA7
127 RA8
126 RA9
125 DVSS
124 RA10
123 RA11
122 XMOE
121 XUCAS
120 XLCAS
119 GPWM5
118 GPWM4
117 GPWM3
116 GPWM2
115 GPWM1
114 GPWM0
113 SPWM2
112 SPWM1
111 FG
110 AVSS
109 DA3 (SLED2_TILT)
108 DA2 (FSCON)
107 DA1 (SLED)
106 DA0 (TSCON)
105 AVDD33
Test/Monitor Pin
汎用ポート
JTAG
157 DVDD33
158 RD8
159 TEST0
160 TEST1
161 TEST2
162 TEST3
163 TEST4
164 TEST5
165 TEST6
166 TEST7
167 TEST8
168 TEST9
169 TEST10
170 TEST11
171 TEST12
172 TEST13
173 TEST14
174 TEST15
175 MODSEL0
176 MODSEL1
177 DVSS
178 MODSEL2
179 GIO0
180 GIO1
181 GIO2
182 GIO3
183 DVDD33
184 GIO4
185 GIO5
186 GIO6
187 GIO7
188 DVDD18
189 GIO8
190 GIO9
191 GIO10
192 GIO11
193 GIO12
194 DVSS
195 GIO13
196 GIO14
197 GIO15
198 GIO16
199 GIO17
200 GIO18
201 GIO19
202 TRST
203 TMS
204 TDI
205 TCK
206 TDO
207 VMCHG
208 DVDD18
A/D
Data PLL/Data Slicer
ASP S-I/O, Defect etc
Audio D/A
VSTEM I/F
104 AVDD18
103 VREFL
102 VREFH
101 AD9
100 AD8
99 AD7
98 AD6
97 AD5
96 AD4
95 AD3
94 AVDD33
93 AD2
92 AD1
91 AD0
90 AVSS
89 AVSS
88 RC
87 LPF2
86 LPF1
85 VCOI
84 AVDD18
83 VFBC
82 CHG
81 JMOUT
80 JMREF
79 AVDD33
78 IREF
77 TLC1
76 TLC0
75 HF
74 ATC
73 AVSS
72 DTC
71 MIRRORH
70 HFD
69 RFOKGH
68 SCLKH
67 SO
66 SI
65 CSL
64 EXPLDT
63 EXVCO
62 BCK
61 LRCK
60 DOTK
59 DADT
58 C2PO
57 DRVRDY
56 DRVCLK
55 DRVRX
54 DRVTX
53 DVDD33
1 DVDD33
2 ALCR
3 MSEL0
4 MSEL1
5 MA0
6 MA1
7 MA2
8 MA3
9 MA4
10 MA5
11 MA6
12 MA7
13 MA8
14 TESTSEL
15 MD0
16 MD1
17 MD2
18 MD3
19 MD4
20 MD5
21 DVSS
22 MD6
23 MD7
24 MALE
25 MCS
26 MWR
27 DVDD33
28 MRD
29 MRDY
30 MINT
31 SYSCK
32 DVDD18
33 XI
34 XO
35 DVSS
36 VDT7
37 VDT6
38 DVSS
39 VDT5
40 VDT4
41 VDT3
42 VDT2
43 VDT1
44 VDT0
45 HDRQ
46 XHAC
47 VEFG
48 XSHD
49 DCK
50 DRVIRQ
51 DRVRST
52 DVDD18
B/E MCU I/F
Clock
VSTEM I/F

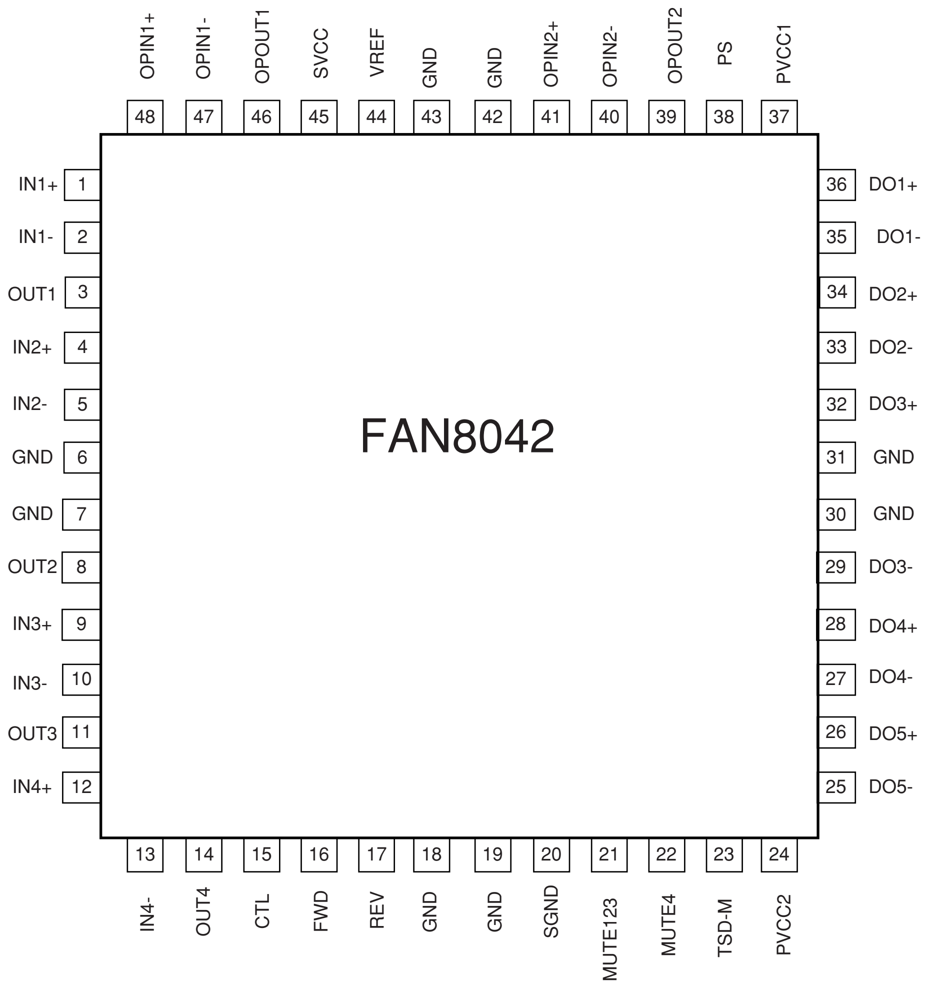

16/4M DRAM
HFD
HF
ASP
PWM
ATC
JTAG
Mecha control
Servo singnal
BCA
Data Slicer
DVD Demodulation
Data-PLL
CD-DSP (DDCD)
ASP Serial I/F
VSTEM Serial I/F
Spindle
TZC
TC
DSP
Command ROM/RAM
Data RAM
GIO
A/D
ICU
Timer
D/A PWM
CMD/ RSP reg.
Peri. CLK
Memory manager
ECC Core
EDC
MPEG I/F
CD-ROM Header Dec.
Audio I/F
DSP CLK/Mode
MCU I/F
ICU
Video
Serial Command
VSTEM
Audio
MCU
Servo control
X'tal

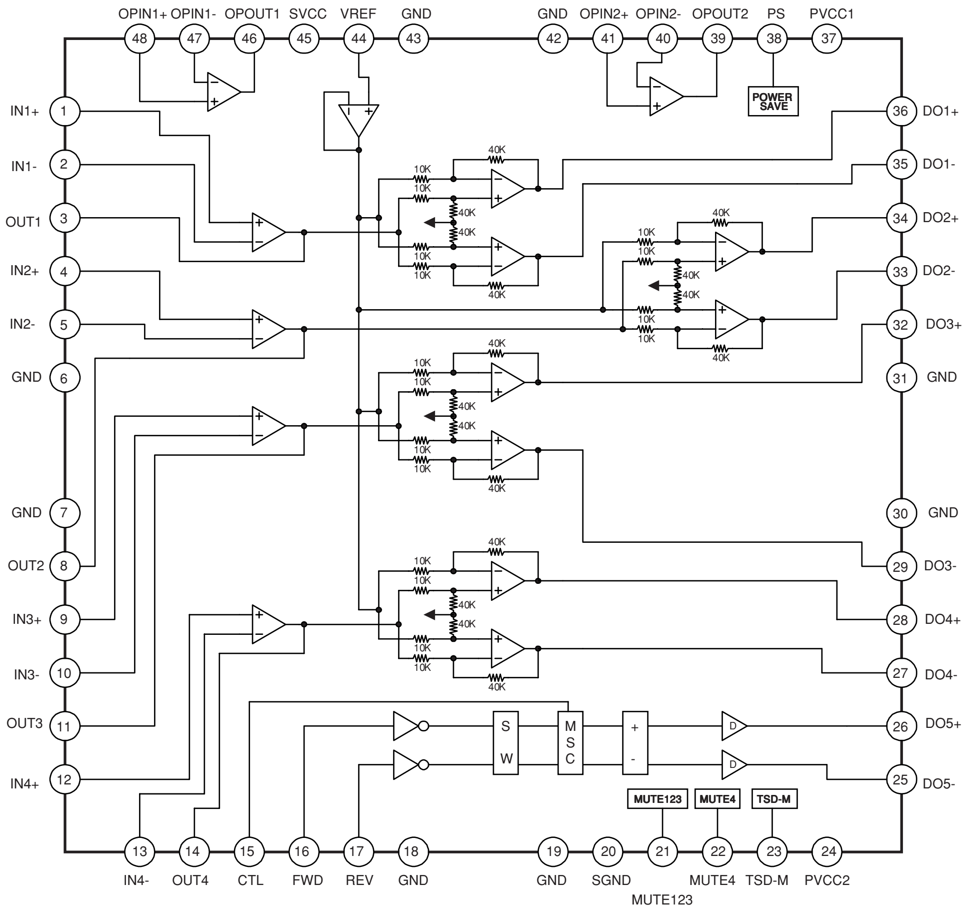
■ : The functional block controlled by DSP.

□ : The functional block which can choose control by DSP or MCU.

▨ : The clock for DSP can choose setup of MCU or VSTEM serial.

PM01 / Q508: FAN8042


FAN8042
1 IN1+
2 IN1-
3 OUT1
4 IN2+
5 IN2-
6 GND
7 GND
8 OUT2
9 IN3+
10 IN3-
11 OUT3
12 IN4+
13 IN4-
14 OUT4
15 CTL
16 FWD
17 REV
18 GND
19 GND
20 SGND
21 MUTE123
22 MUTE4
23 TSD-M
24 PVCC2
25 DO5-
26 DO5+
27 DO4-
28 DO4+
29 DO3-
30 GND
31 GND
32 DO3+
33 DO2-
34 DO2+
35 DO1-
36 DO1+
37 PVCC1
38 PS
39 OPOUT2
40 OPIN2-
41 OPIN2+
42 GND
43 GND
44 VREF
45 SVCC
46 OPOUT1
47 OPIN1-
48 OPIN1+

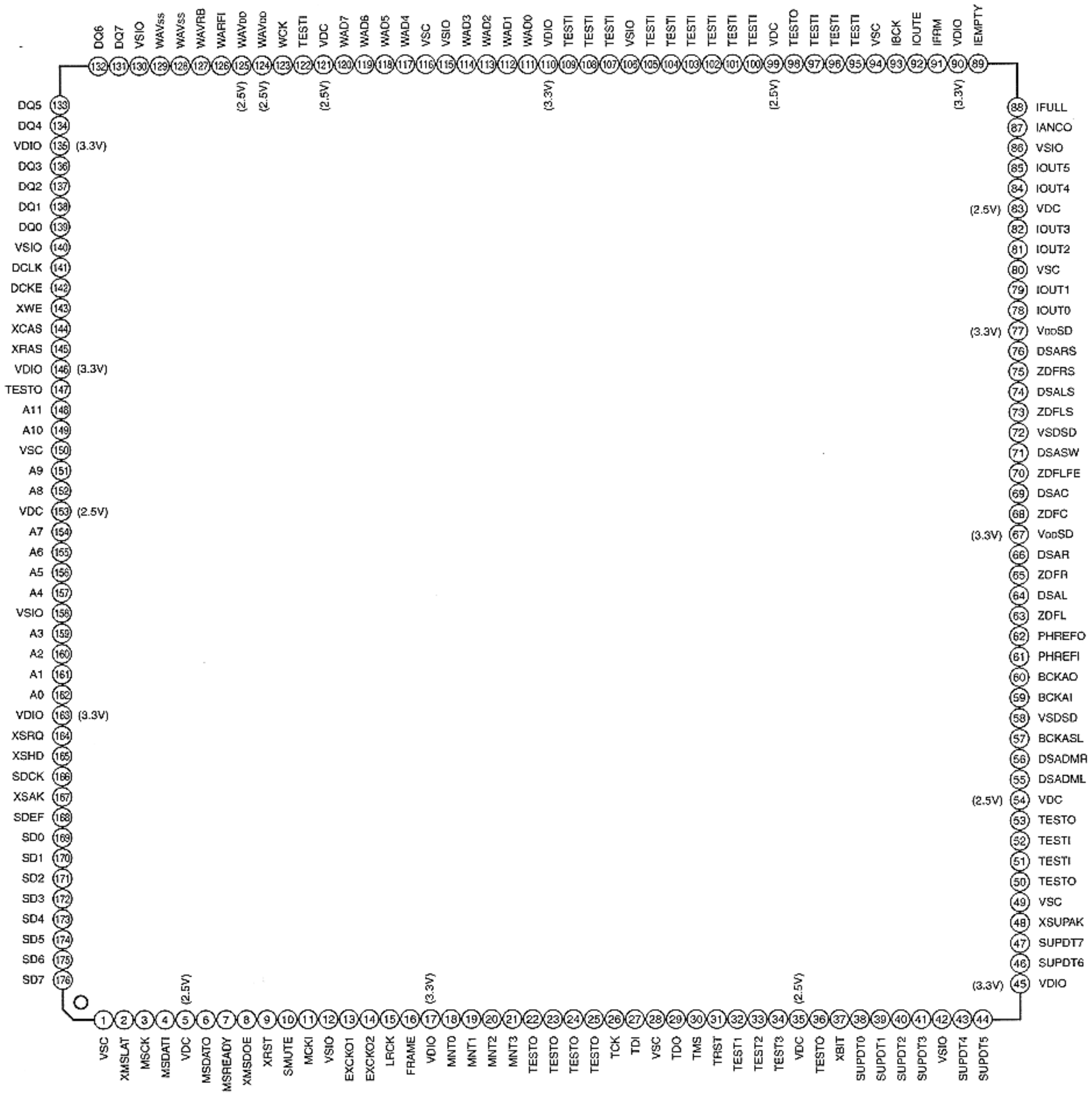

OPIN1+ OPIN1- OPOUT1 SVCC VREF GND
GND OPIN2+ OPIN2- OPOUT2 PS PVCC1
48 47 46 45 44 43 42 41 40 39 38 37
POWER SAVE
IN1+ 1
IN1- 2
OUT1 3
IN2+ 4
IN2- 5
GND 6
GND 7
OUT2 8
IN3+ 9
IN3- 10
OUT3 11
IN4+ 12
36 DO1+
35 DO1-
34 DO2+
33 DO2-
32 DO3+
31 GND
30 GND
29 DO3-
28 DO4+
27 DO4-
26 DO5+
25 DO5-
10K
40K
S W
M S C
D
MUTE123 MUTE4 TSD-M
13 14 15 16 17 18 19 20 21 22 23 24
IN4- OUT4 CTL FWD REV GND GND SGND MUTE4 TSD-M PVCC2
MUTE123

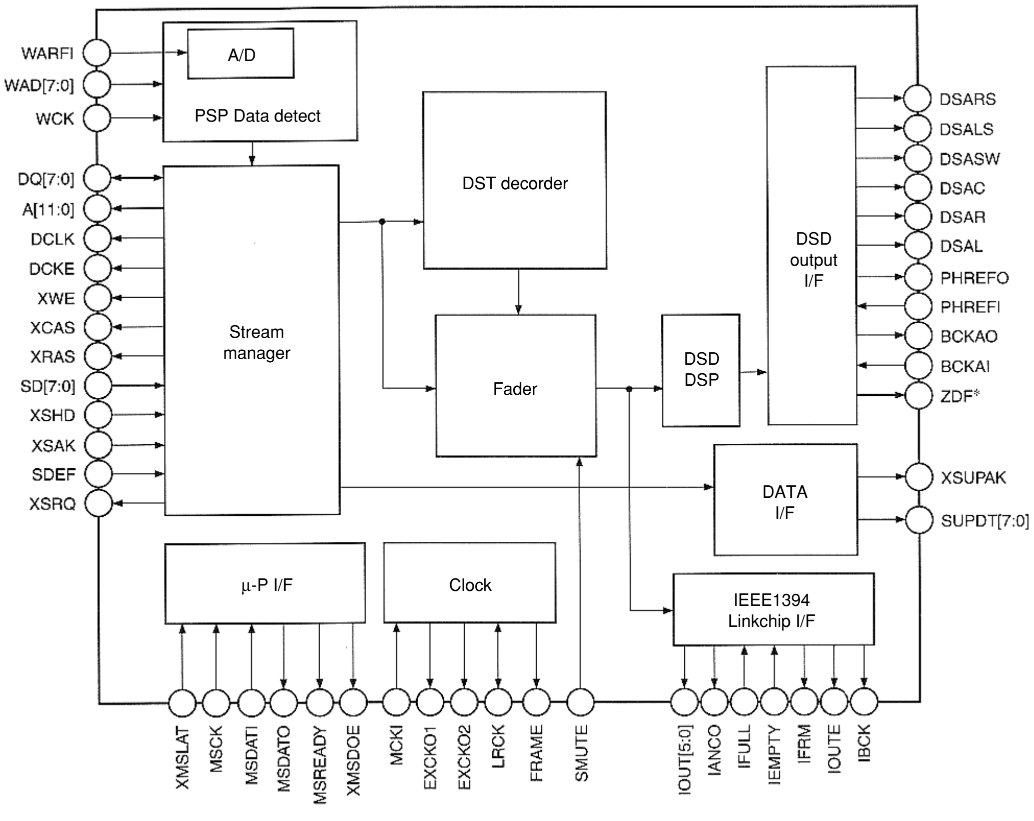
Pin Number	Pin Name	I/O	Pin Function Description
1	IN1	I	CH1 op-amp input (–)
2	IN1	I	CH1 op-amp input (–)
3	OUT1	O	CH1 op-amp output
4	IN2	I	CH2 op-amp input (–)
5	IN2	I	CH2 op-amp input (–)
6	GND	-	Ground
7	GND	-	Ground
8	OUT2	O	CH2 op-amp output
9	IN3+	I	CH3 op-amp input (+)
10	IN3	I	CH3 op-amp input (–)
11	OUT3	O	CH3 op-amp output
12	IN4+	I	CH4 op-amp input (+)
13	IN4	I	CH4 op-amp input (–)
14	OUT4	O	CH4 op-amp output
15	CTL	I	CH5 motor speed control
16	FWD	I	CH5 forward input
17	REV	I	CH5 reverse input
18	GND	-	Ground
19	GND	-	Ground
20	SGND	-	Signal Ground
21	MUTE123	I	Mute for CH1,2,3
22	MUTE4	I	Mute for CH4
23	TSD-M	O	TSD monitor
24	PVCC2	-	Power supply voltage 2 (For CH4, CH5)
25	DO5-	O	CH5 drive output (–)
26	DO5+	O	CH5 drive output (+)
27	DO4	O	CH4 drive ouptut (–)
28	DO4+	O	CH4 drive output (+)
29	DO3	O	CH3 drive ouptut (–)
30	GND	-	Ground
31	GND	-	Ground
32	DO3+	O	CH3 drive output (+)
33	DO2	O	CH2 drive ouptut (–)
34	DO2+	O	CH2 drive output (+)
35	DO1	O	CH1 drive ouptut (–)
36	DO1+	O	CH1 drive output (+)
37	PVCC1	-	Power supply voltage 1 (FOR CH1, CH2, CH3)
38	PS	I	Power save
39	OPOUT2	O	Normal op-amp2 output
40	OPIN2	I	Normal op-amp2 input (–)
41	OPIN2+	I	Normal op-amp2 input (+)
42	GND	-	Ground
43	GND	-	Ground
44	VREF	I	Bias voltage input
45	SVCC	-	Signal & OPAMPs supply voltage
46	OPOUT1	O	Normal op-amp1 output
47	OPIN1	I	Normal op-amp1 input (–)
48	OPIN1+	I	Normal op-amp1 input (+)

PM01 / Q404: EPM3128ATC100-10

Dedicated Pin	100-Pin TQFP	144-Pin TQFP	256-Pin FineLine BGA
INPUT/GCLK1	87	125	D9
INPUT/GCLRn	89	127	E8
INPUT/OE1	88	126	E9
INPUT/OE2/GCLK2	90	128	D8
TDI (1)	4	4	D4
TMS (1)	15	20	J6
TCK (1)	62	89	J11
TDO (1)	73	104	D13
GNDINT	38, 86	52, 57, 124, 129	A8, C9, G9, K8, P9
GNDIO	11, 26, 33, 43, 53, 59, 65, 74, 78, 95	3, 13, 17, 26, 33, 59, 64, 77, 85, 94, 105, 114, 135	A3, B10, C2, D14, E14, F6, G10, H8, J9, K7, L11, M2, M3, M14, P3, P6, P10, R2, R3, R10, T1, T8, T15
VCCINT (3.3 V Only)	39, 91	51, 58, 123, 130	B9, C8, G8, K9, P8
VCCIO (2.5 V or 3.3 V)	3, 18, 34, 51, 66, 82	24, 50, 73, 76, 95, 115, 144	B3, B5, C14, E15, F11, G3, G7, G15, H9, J8, K10, L3, L6, M15, P14, T2, T3
No Connect (N.C.)	–	1, 2, 12, 19, 34, 35, 36, 43, 46, 47, 48, 49, 66, 75, 90, 103, 108, 120, 121, 122	A1, A2, A4, A5, A6, A7, A9, A10, A11, A12, A13, A14, A15, A16, B1, B2, B4, B6, B7, B8, B11, B12, B13, B14, B 15, B16, C1, C3, C4, C6, C11, C13, C15, C16, D1, D2, D3, D15, D16, E1, E2, E3, E16, F1, F2, F15, F16, G1, G2, G14, G16, H1, H2, H15, H16, J1, J2, J15, J16, K1, 2, K3, K14, K15, K16, L1, L2, L15, L16, M1, M16, N1, N2, N3, N14, N15, N16, P1, P2, P4, P12, P13, P15, P16, R1, R4, R5, R6, R7, R8, R9, R11, R12, R13, R14, R15, R16, T4, T5, T6, T7, T9, T10, T11, T12, T13, T14, T16
Total User I/O Pins (2)	80	96	98

PM01 / Q401: CXD2753R


DQ6 132
DQ7 131
VSIO 130
WAVss 129
WAVss 128
WAVRB 127
WARFI 126
WAVDD 125 (2.5V)
WAVDD 124 (2.5V)
WCK 123
TESTI 122
VDC 121 (2.5V)
WAD7 120
WAD6 119
WAD5 118
WAD4 117
VSC 116
VSIO 115
WAD3 114
WAD2 113
WAD1 112
WAD0 111
VDIO 110 (3.3V)
TESTI 109
TESTI 108
TESTI 107
VSIO 106
TESTI 105
TESTI 104
TESTI 103
TESTI 102
TESTI 101
TESTI 100
VDC 99 (2.5V)
TESTO 98
TESTI 97
TESTI 96
TESTI 95
VSC 94
IBCK 93
IOUTE 92
IFRM 91
VDIO 90 (3.3V)
IEMPTY 89
DQ5 133
DQ4 134
VDIO 135 (3.3V)
DQ3 136
DQ2 137
DQ1 138
DQ0 139
VSIO 140
DCLK 141
DCKE 142
XWE 143
XCAS 144
XRAS 145
VDIO 146 (3.3V)
TESTO 147
A11 148
A10 149
VSC 150
A9 151
A8 152
VDC 153 (2.5V)
A7 154
A6 155
A5 156
A4 157
VSIO 158
A3 159
A2 160
A1 161
A0 162
VDIO 163 (3.3V)
XSRQ 164
XSHD 165
SDCK 166
XSAK 167
SDEF 168
SD0 169
SD1 170
SD2 171
SD3 172
SD4 173
SD5 174
SD6 175
SD7 176
88 IFULL
87 IANCO
86 VSIO
85 IOUT5
84 IOUT4
(2.5V) 83 VDC
82 IOUT3
81 IOUT2
80 VSC
79 IOUT1
78 IOUT0
(3.3V) 77 VDDSD
76 DSARS
75 ZDFRS
74 DSALS
73 ZDFLS
72 VSDSD
71 DSASW
70 ZDFLFE
69 DSAC
68 ZDFC
(3.3V) 67 VDDSD
66 DSAR
65 ZDFR
64 DSAL
63 ZDFL
62 PHREFO
61 PHREFI
60 BCKAO
59 BCKAI
58 VSDSD
57 BCKASL
56 DSADMR
55 DSADML
(2.5V) 54 VDC
53 TESTO
52 TESTI
51 TESTI
50 TESTO
49 VSC
48 XSUPAK
47 SUPDT7
46 SUPDT6
(3.3V) 45 VDIO
1 VSC
2 XMSLAT
3 MSCK
4 MSDATI
5 VDC (2.5V)
6 MSDATO
7 MSREADY
8 XMSDOE
9 XRST
10 SMUTE
11 MCKI
12 VSIO
13 EXCKO1
14 EXCKO2
15 LRCK
16 FRAME
17 VDIO (3.3V)
18 MNT0
19 MNT1
20 MNT2
21 MNT3
22 TESTO
23 TESTO
24 TESTO
25 TESTO
26 TCK
27 TDI
28 VSC
29 TDO
30 TMS
31 TRST
32 TEST1
33 TEST2
34 TEST3
35 VDC (2.5V)
36 TESTO
37 XBIT
38 SUPDT0
39 SUPDT1
40 SUPDT2
41 SUPDT3
42 VSIO
43 SUPDT4
44 SUPDT5


WARFI
WAD[7:0]
WCK
A/D
PSP Data detect
DQ[7:0]
A[11:0]
DCLK
DCKE
XWE
XCAS
XRAS
SD[7:0]
XSHD
XSAK
SDEF
XSRQ
Stream manager
DST decorder
Fader
DSD DSP
DSD output I/F
DATA I/F
IEEE1394 Linkchip I/F
µ-P I/F
Clock
DSARS
DSALS
DSASW
DSAC
DSAR
DSAL
PHREFO
PHREFI
BCKAO
BCKAI
ZDF*
XSUPAK
SUPDT[7:0]
XMSLAT
MSCK
MSDATI
MSDATO
MSREADY
XMSDOE
MCKI
EXCKO1
EXCKO2
LRCK
FRAME
SMUTE
IOUT[5:0]
IANCO
IFULL
IEMPTY
IFRM
IOUTE
IBCK

PM01 / QK01: CD0040AF

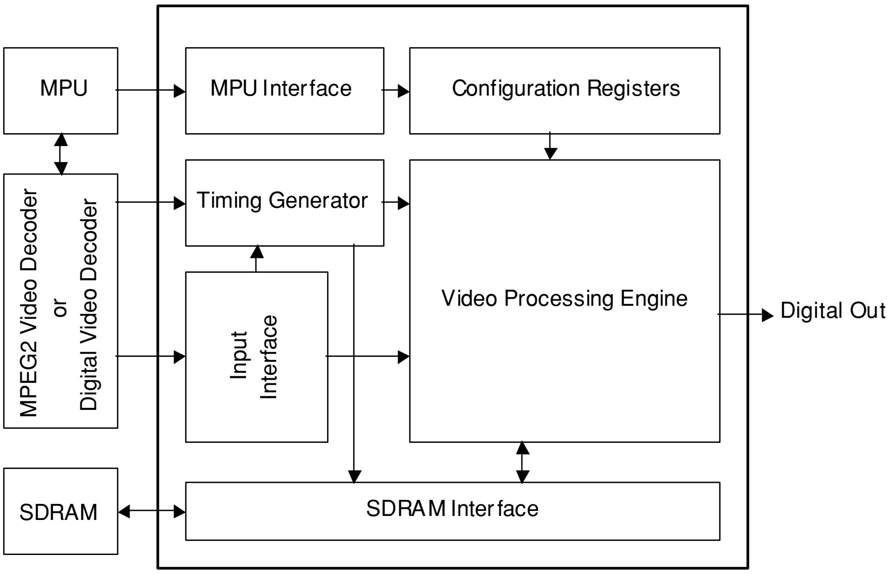
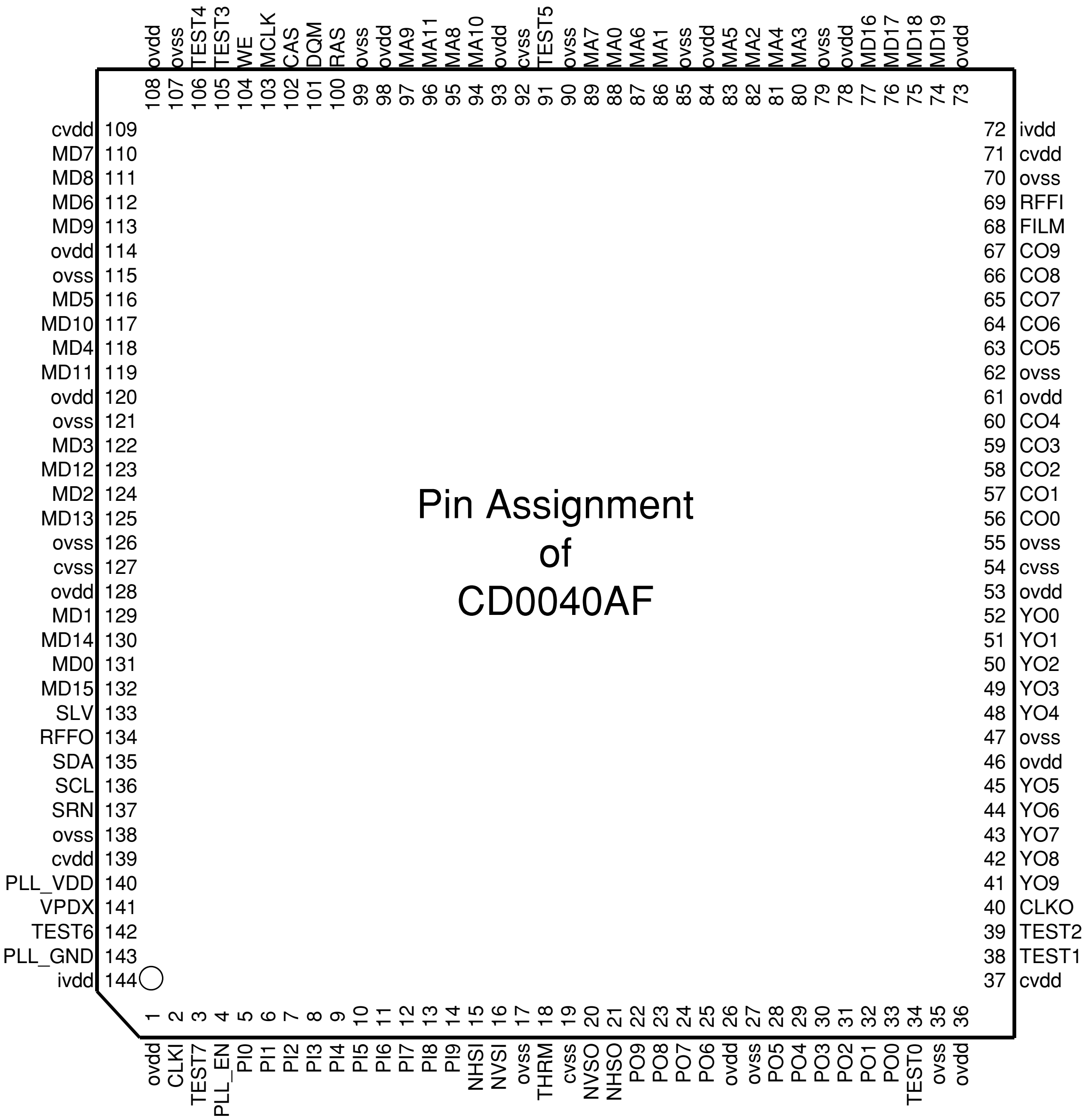

MPU
MPU Interface
Configuration Registers
MPEG2 Video Decoder
or
Digital Video Decoder
Timing Generator
Input
Interface
Video Processing Engine
Digital Out
SDRAM
SDRAM Interface

Fig. 2-1: System Block Diagram

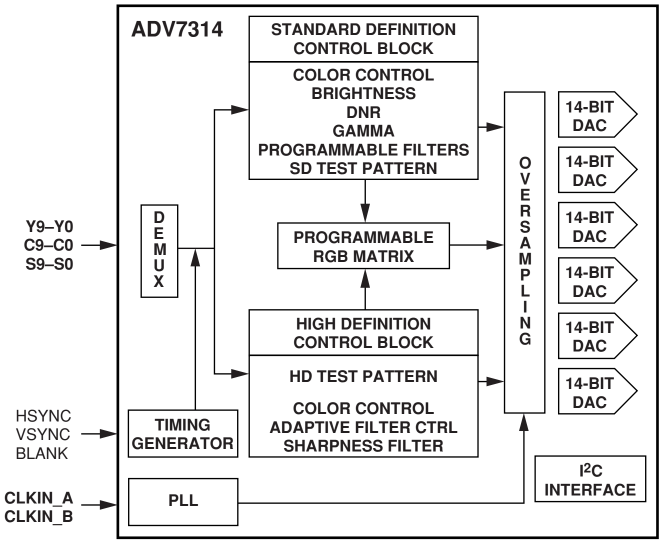

Pin Assignment
of
CD0040AF
1 ovdd
2 CLKI
3 TEST7
4 PLL_EN
5 PI0
6 PI1
7 PI2
8 PI3
9 PI4
10 PI5
11 PI6
12 PI7
13 PI8
14 PI9
15 NHSI
16 NVSI
17 ovss
18 THRM
19 cvss
20 NVSO
21 NHSO
22 PO9
23 PO8
24 PO7
25 PO6
26 ovdd
27 ovss
28 PO5
29 PO4
30 PO3
31 PO2
32 PO1
33 PO0
34 TEST0
35 ovss
36 ovdd
37 cvdd
38 TEST1
39 TEST2
40 CLKO
41 YO9
42 YO8
43 YO7
44 YO6
45 YO5
46 ovdd
47 ovss
48 YO4
49 YO3
50 YO2
51 YO1
52 YO0
53 ovdd
54 cvss
55 ovss
56 CO0
57 CO1
58 CO2
59 CO3
60 CO4
61 ovdd
62 ovss
63 CO5
64 CO6
65 CO7
66 CO8
67 CO9
68 FILM
69 RFFI
70 ovss
71 cvdd
72 ivdd
73 ovdd
74 MD19
75 MD18
76 MD17
77 MD16
78 ovdd
79 ovss
80 MA3
81 MA4
82 MA2
83 MA5
84 ovdd
85 ovss
86 MA1
87 MA6
88 MA0
89 MA7
90 ovss
91 TEST5
92 cvss
93 ovdd
94 MA10
95 MA8
96 MA11
97 MA9
98 ovdd
99 ovss
100 RAS
101 DQM
102 CAS
103 MCLK
104 WE
105 TEST3
106 TEST4
107 ovss
108 ovdd
109 cvdd
110 MD7
111 MD8
112 MD6
113 MD9
114 ovdd
115 ovss
116 MD5
117 MD10
118 MD4
119 MD11
120 ovdd
121 ovss
122 MD3
123 MD12
124 MD2
125 MD13
126 ovss
127 cvss
128 ovdd
129 MD1
130 MD14
131 MD0
132 MD15
133 SLV
134 RFFO
135 SDA
136 SCL
137 SRN
138 ovss
139 cvdd
140 PLL_VDD
141 VPDX
142 TEST6
143 PLL_GND
144 ivdd

No.	Name	I/O[1]	Attribute	Functional Description
1	OVDD	P	-	Positive supply voltage(+3.3V) for Pad Ring
2	CLKI	In	CMOS	System Clock Input (27MHz)
3	TEST7	In	CMOS	Test purpose only(must be connected to Ground)
4	PLL_EN	In	CMOS	PLL enable
5	PI0	In	CMOS	ITU-R BT.656/601 Input (LSB)
6	PI1	In	CMOS	ITU-R BT.656/601 Input
7	PI2	In	CMOS	ITU-R BT.656/601 Input
8	PI3	In	CMOS	ITU-R BT.656/601 Input
9	PI4	In	CMOS	ITU-R BT.656/601 Input
10	PI5	In	CMOS	ITU-R BT.656/601 Input
11	PI6	In	CMOS	ITU-R BT.656/601 Input
12	PI7	In	CMOS	ITU-R BT.656/601 Input
13	PI8	In	CMOS	ITU-R BT.656/601 Input
14	PI9	In	CMOS	ITU-R BT.656/601 Input (MSB)
15	NHSI	In	Schmitt	Active low horizontal sync input
16	NVSI	In	Schmitt	Active low vertical sync input
17	OVSS	P	-	Digital ground for Pad Ring
18	THMD	In	Schmitt	Through mode setting terminal. Usually, this must be connected to ground.
19	CVSS	P	-	Digital ground for Core
20	NVSO	Out	2mA	Active low vertical sync output (Interlace or Progressive) Refer “11.2Video Output”
21	NHSO	Out	2mA	Active low horizontal sync output(Interlace or Progressive) Refer “11.2Video Output”
22	PO9	Inout	CMOS / 2mA	ITU-R BT.656/601 output (MSB) / clamp signal output / ITU-R BT. 601 Cb Cr input(MSB)
23	PO8	Inout	CMOS / 2mA	ITU-R BT.656/601 output / Video active signal output / ITU-R BT. 601 CbCr input. Refer “11.1Video Input””11.2Video Output””11.3Through Mode”
24	PO7	Inout	CMOS / 2mA	ITU-R BT.656/601 output / Video blanking signal output / ITU-R BT. 601 CbCr input Refer “11.1Video Input””11.2Video Output”
25	PO6	Inout	CMOS / 2mA	ITU-R BT.656/601 output / ITU-R BT.601 CbCr input Refer “11.1Video Input””11.2Video Output”11.3Through Mode”
26	OVDD	P	-	Positive supply voltage (+3.3V) for Pad Ring
27	OVSS	P	-	Digital ground for Pad Ring
28	PO5	Inout	CMOS / 2mA	ITU-R BT.656/601 output / ITU-R BT.601 CbCr input Refer “11.1Video Input””11.2Video Output””11.3Through Mode”
29	PO4	Inout	CMOS / 2mA	ITU-R BT.656/601 output / ITU-R BT.601 CbCr input Refer “11.1Video Input””11.2Video Output””11.3Through Mode”
30	PO3	Inout	CMOS / 2mA	ITU-R BT.656/601 output / ITU-R BT.601 CbCr input Refer “11.1Video Input””11.2Video Output””11.3Through Mode”
31	PO2	Inout	CMOS / 2mA	ITU-R BT.656/601 output / ITU-R BT.601 CbCr input Refer “11.1Video Input””11.2Video Output””11.3Through Mode”
32	PO1	Inout	CMOS / 2mA	ITU-R BT.656/601 output / ITU-R BT.601 CbCr input [*2] Refer “11.1Video Input””11.2Video Output””11.3Through Mode”
33	PO0	Inout	CMOS / 2mA	ITU-R BT.656/601 output (LSB) / ITU-R BT.601 CbCr input [*2] Refer “11.1Video Input””11.2Video Output””11.3Through Mode”
34	TEST0	In	CMOS	Test purpose only (must be connected to ground)
35	OVSS	P	-	Digital ground for Pad Ring
36	OVDD	P	-	Positive supply voltage (+3.3V) for Pad Ring
37	CVDD	P	-	Digital positive supply voltage (+2.5V) for core
38	TEST1	In	CMOS	Test purpose only (must be connected to ground)
39	TEST2	In	CMOS	Test purpose only (must be connected to ground)
40	CLKO	Out	2mA	Clock output(27MHz)
41	YO9	Out	4mA	ANSI/SMPTE 293M Y output(MSB)
42	YO8	Out	4mA	ANSI/SMPTE 293M Y output
43	YO7	Out	4mA	ANSI/SMPTE 293M Y output
44	YO6	Out	4mA	ANSI/SMPTE 293M Y output
45	YO5	Out	4mA	ANSI/SMPTE 293M Y output
46	OVDD	P	-	Positive supply voltage (+3.3V) for Pad Ring
47	OVSS	P	-	Digital ground for Pad Ring
48	YO4	Out	4mA	ANSI/SMPTE 293M Y output
49	YO3	Out	4mA	ANSI/SMPTE 293M Y output
50	YO2	Out	4mA	ANSI/SMPTE 293M Y output
51	YO1	Out	4mA	ANSI/SMPTE 293M Y output
52	YO0	Out	4mA	ANSI/SMPTE 293M Y output (LSB)
53	OVDD	P	-	Positive supply voltage (+3.3V) for Pad Ring
54	CVSS	P	-	Digital ground for core
55	OVSS	P	-	Digital ground for Pad Ring
56	CO0	Out	4mA	ANSI/SMPTE 293M Cb/Cr output
57	CO1	Out	4mA	ANSI/SMPTE 293M Cb/Cr output
58	CO2	Out	4mA	ANSI/SMPTE 293M Cb/Cr output
59	CO3	Out	4mA	ANSI/SMPTE 293M Cb/Cr output
60	CO4	Out	4mA	ANSI/SMPTE 293M Cb/Cr output
61	OVDD	P	-	Positive supply voltage (+3.3V) for Pad Ring
62	OVSS	P	-	Digital ground for Pad Ring
63	CO5	Out	4mA	ANSI/SMPTE 293M Cb/Cr output
64	CO6	Out	4mA	ANSI/SMPTE 293M Cb/Cr output
65	CO7	Out	4mA	ANSI/SMPTE 293M Cb/Cr output
66	CO8	Out	4mA	ANSI/SMPTE 293M Cb/Cr output
67	CO9	Out	4mA	ANSI/SMPTE 293M Cb/Cr output (MSB)
68	FILM	Out	2mA	Film sequence detection flag output. Refer ”11.4.1.9Film detection Flag Output”
69	RFFI	In	CMOS	MPEG flag (Repeat First Field) input port. Refer”11.4.1.6Film I/P Conversion””11.4.1.8Film Sequence Flag Control Mode”
70	OVSS	P	-	Digital ground for Pad Ring
71	CVDD	P	-	Digital positive supply voltage (+2.5V) for core
72	IVDD	P	-	Positive supply voltage (+3.3V) for Pad Ring
73	OVDD	P	-	Positive supply voltage (+3.3V) for Pad Ring
74	MD19	Inout	CMOS, pull-up / 4mA	Data input/output port for SDRAM
75	MD18	Inout	CMOS, pull-up / 4mA	Data input/output port for SDRAM
76	MD17	Inout	CMOS, pull-up / 4mA	Data input/output port for SDRAM
77	MD16	Inout	CMOS, pull-up / 4mA	Data input/output port for SDRAM
78	OVDD	P	-	Positive supply voltage (+3.3V) for Pad Ring
79	OVSS	P	-	Digital ground for Pad Ring
80	MA3	Out	4mA	Address output port for SDRAM
81	MA4	Out	4mA	Address output port for SDRAM
82	MA2	Out	4mA	Address output port for SDRAM
83	MA5	Out	4mA	Address output port for SDRAM
84	OVDD	P	-	Positive supply voltage (+3.3V) for Pad Ring
85	OVSS	P	-	Digital ground for Pad Ring
86	MA1	Out	4mA	Address output port for SDRAM
87	MA6	Out	4mA	Address output port for SDRAM
88	MA0	Out	4mA	Address output port for SDRAM (LSB)
89	MA7	Out	4mA	Address output port for SDRAM
90	OVSS	P	-	Digital ground for Pad Ring
91	IVSS	P	-	Digital ground for Pad Ring
92	CVSS	P	-	Digital ground for Pad Ring for Core
93	OVDD	P	-	Positive supply voltage (+3.3V) for Pad Ring
94	MA10	Out	4mA	Address output port for SDRAM
95	MA8	Out	4mA	Address output port for SDRAM
96	MA11	Out	4mA	Address output port for SDRAM (MSB)
97	MA9	Out	4mA	Address output port for SDRAM
98	OVDD	P	-	Positive supply voltage (+3.3V) for Pad Ring
99	OVSS	P	-	Digital ground for Pad Ring
100	RAS	Out	4mA	Row Address Strobe command output port for SDRAM
101	DQM	Out	4mA	DQM output port for SDRAM. In addition, please connect the CKE terminal of SDRAM to the power supply of SDRAM
102	CAS	Out	4mA	Column Address Strobe command output port for SDRAM
103	MCLK	Out	4mA	Clock output port for SDRAM (54MHz)
104	WE	Out	4mA	Write Enable output port for SDRAM
105	TEST3	In	CMOS	Test purpose only (must be connected to ground)
106	TEST4	In	CMOS	Test purpose only (must be connected to ground)
107	OVSS	P	-	Digital ground for Pad Ring
108	OVDD	P	-	Positive supply voltage (+3.3V) for Pad Ring
109	CVDD	P	-	Digital positive supply voltage (+2.5V) for core
110	MD7	Inout	CMOS, pull-up / 4mA	Data input/output port for SDRAM
111	MD8	Inout	CMOS, pull-up / 4mA	Data input/output port for SDRAM
112	MD6	Inout	CMOS, pull-up / 4mA	Data input/output port for SDRAM
113	MD9	Inout	CMOS, pull-up / 4mA	Data input/output port for SDRAM
114	OVDD	P	-	Positive supply voltage (+3.3V) for Pad Ring
115	OVSS	P	-	Digital ground for Pad Ring
116	MD5	Inout	CMOS, pull-up / 4mA	Data input/output port for SDRAM
117	MD10	Inout	CMOS, pull-up / 4mA	Data input/output port for SDRAM
118	MD4	Inout	CMOS, pull-up / 4mA	Data input/output port for SDRAM
119	MD11	Inout	CMOS, pull-up / 4mA	Data input/output port for SDRAM
120	OVDD	P	-	Positive supply voltage (+3.3V) for Pad Ring
121	OVSS	P	-	Digital ground for Pad Ring
122	MD3	Inout	CMOS, pull-up / 4mA	Data input/output port for SDRAM
123	MD12	Inout	CMOS, pull-up / 4mA	Data input/output port for SDRAM
124	MD2	Inout	CMOS, pull-up / 4mA	Data input/output port for SDRAM
125	MD13	Inout	CMOS, pull-up / 4mA	Data input/output port for SDRAM
126	OVSS	P	-	Digital ground for Pad Ring
127	CVSS	P	-	Digital ground for core
128	OVDD	P	-	Positive supply voltage (+3.3V) for Pad Ring
129	MD1	Inout	CMOS, pull-up / 4mA	Data input/output port for SDRAM
130	MD14	Inout	CMOS, pull-up / 4mA	Data input/output port for SDRAM
131	MD0	Inout	CMOS, pull-up / 4mA	Data input/output port for SDRAM
132	MD15	Inout	CMOS, pull-up / 4mA	Data input/output port for SDRAM
133	SLV	In	CMOS	Slave address selection input for I2C. Slave address is set up to 0x72 when SLV is “0”, 0x70 when “1”.
134	RFFO	Out	2mA	MPEG flag (Repeat First Field) output port. If not used, leave open.
135	SDA	Inout	Schmitt, 3.3V / 4mA	Data input/output of MPU interface
136	SCL	In	Schmitt, 3.3V	Clock input of MPU interface
137	SRN	In	Schmitt	System reset input(negative)
138	OVSS	P	-	Digital ground for Pad Ring
139	CVDD	P	-	Digital positive supply voltage (+2.5V) for core
140	PLL_VDD	P	-	Digital positive supply voltage (+2.5V) for PLL
141	VPDX	In	CMOS	Must be connected to ground
142	TEST6	In	CMOS	Test purpose only (must be connected to ground)
143	PLL_GND	P	-	Ground for PLL
144	IVDD	P	-	Positive supply voltage (+3.3V) for Pad Ring

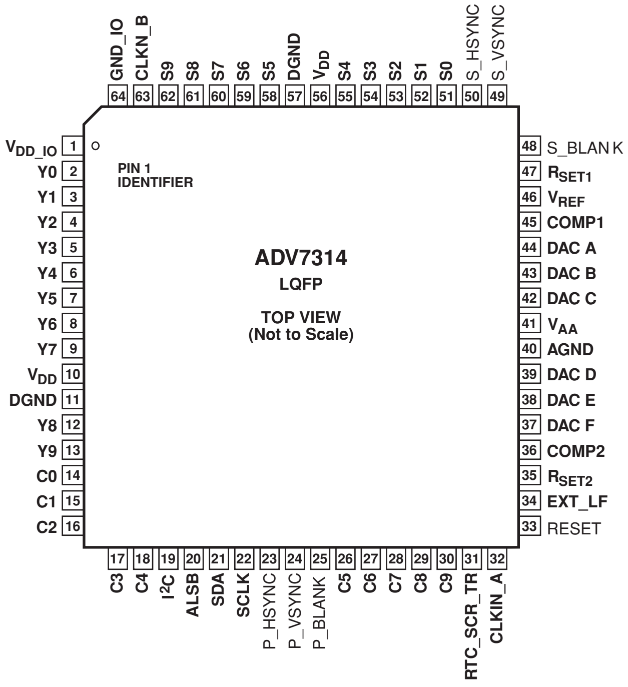
Note: *1 P10 and P11 should be connected to GND at the time of 8bit input.
*2 PO0 and PO1 should connected to GND at the time of 8bit input.
*3 Although the same bidirectional buffer as PO is used in order to unite PO and timing at the time of PO input, it is always fixed as an input.
*4 The initial-setting value or the initial state in a reset period and after reset release.

PM01 / QM01: ADV7314

FUNCTIONAL BLOCK DIAGRAM


ADV7314
STANDARD DEFINITION CONTROL BLOCK
COLOR CONTROL
BRIGHTNESS
DNR
GAMMA
PROGRAMMABLE FILTERS
SD TEST PATTERN
Y9–Y0
C9–C0
S9–S0
DEMUX
PROGRAMMABLE RGB MATRIX
HIGH DEFINITION CONTROL BLOCK
HD TEST PATTERN
COLOR CONTROL
ADAPTIVE FILTER CTRL
SHARPNESS FILTER
OVERSAMPLING
14-BIT DAC
14-BIT DAC
14-BIT DAC
14-BIT DAC
14-BIT DAC
14-BIT DAC
HSYNC
VSYNC
BLANK
TIMING GENERATOR
CLKIN_A
CLKIN_B
PLL
I2C INTERFACE

PIN CONFIGURATION

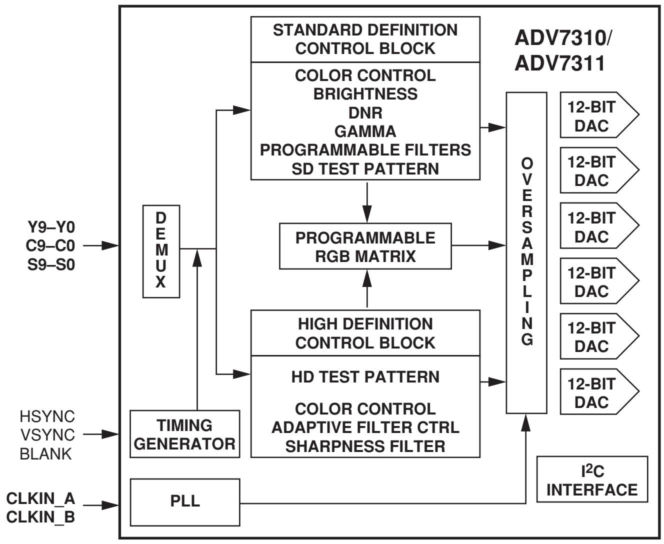

GND_IO 64
CLKN_B 63
S9 62
S8 61
S7 60
S6 59
S5 58
DGND 57
VDD 56
S4 55
S3 54
S2 53
S1 52
S0 51
S_HSYNC 50
S_VSYNC 49
VDD_IO 1
Y0 2
Y1 3
Y2 4
Y3 5
Y4 6
Y5 7
Y6 8
Y7 9
VDD 10
DGND 11
Y8 12
Y9 13
C0 14
C1 15
C2 16
PIN 1 IDENTIFIER
ADV7314
LQFP
TOP VIEW
(Not to Scale)
48 S_BLANK
47 RSET1
46 VREF
45 COMP1
44 DAC A
43 DAC B
42 DAC C
41 VAA
40 AGND
39 DAC D
38 DAC E
37 DAC F
36 COMP2
35 RSET2
34 EXT_LF
33 RESET
17 C3
18 C4
19 I2C
20 ALSB
21 SDA
22 SCLK
23 P_HSYNC
24 P_VSYNC
25 P_BLANK
26 C5
27 C6
28 C7
29 C8
30 C9
31 RTC_SCR_TR
32 CLKIN_A

PIN FUNCTION DESCRIPTIONS

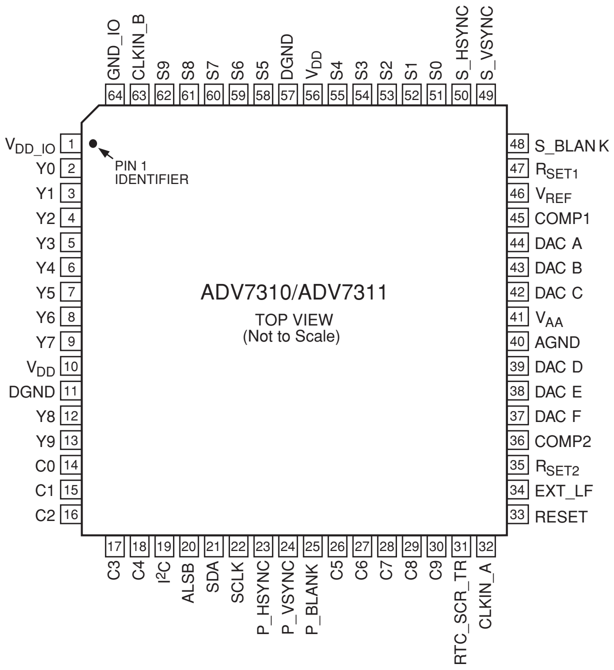
Pin No.	Mnemonic	Input/Output	Function
11, 57	DGND	G	Digital Ground.
40	AGND	G	Analog Ground.
32	CLKIN_A	I	Pixel Clock Input for HD (74.25 MHz Only, PS Only (27 MHz), SD Only (27 MHz).
63	CLKIN_B	I	Pixel Clock Input. Requires a 27 MHz reference clock for Progressive Scan mode or a 74.25 MHz (74.1758 MHz) reference clock in HDTV mode. This clock is only used in dual modes.
36, 45	COMP2, COMP1	O	Compensation Pin for DACs. Connect 0.1 F capacitor from COMP pin to V_{AA}.
44	DAC A	O	CVBS/Green/Y/Y Analog Output.
43	DAC B	O	Chroma/Blue/U/Pb Analog Output.
42	DAC C	O	Luma/Red/V/Pr Analog Output.
39	DAC D	O	In SD Only Mode: CVBS/Green/Y Analog Output. In HD Only mode and simultaneous HD/SD mode: Y/ Green [HD] Analog Output.
38	DAC E	O	In SD Only Mode: Luma/ Blue/U Analog Output. In HD Only mode and simultaneous HD/SD mode: Pr/ Red Analog Output.
37	DAC F	O	In SD Only Mode: Chroma/ Red/V Analog Output. In HD Only mode and simultaneous HD/SD mode: Pb/ Blue [HD] Analog Output.
23	P_HSYNC	I	Video Horizontal Sync Control Signal for HD in Simultaneous SD/HD Mode and HD.
24	P_VSYNC	I	Video Vertical Sync Control Signal for HD in Simultaneous SD/HD Mode and HD.
25	P_BLANK	I	Video Blanking Control Signal for HD in Simultaneous SD/HD Mode and HD.
48	S_BLANK	I/O	Video Blanking Control Signal for SD only.
50	S_HSYNC	I/O	Video Horizontal Sync Control Signal for SD Only.
49	S_VSYNC	I/O	Video Vertical Sync Control Signal for SD Only.
2–9, 12–13	Y9–Y0	I	SD or Progressive Scan/HDTV Input Port for Y Data. Input port for interleaved progressive scan data. The LSB is set up on Pin Y0. For 8-bit data input, LSB is set up on Y2.
14–18, 26–30	C9–C0	I	Progressive Scan/HDTV Input Port. In 4:4:4 Input mode, this port is used for the Cb[Blue/U] data. The LSB is set up on Pin C0. For 8-bit data input, LSB is set up on C2.
51–55, 58–62	S9–S0	I	SD or Progressive Scan/HDTV Input Port for Cr [Red/V] Data in 4:4:4 Input Mode. LSB is set up on Pin S0. For 8-bit data input, LSB is set up on S2.
33	RESET	I	This input resets the on-chip timing generator and sets the ADV7314 into default register setting. RESET is an active low signal.
35, 47	R_{SET2}, R_{SET1}	I	A 3040 resistor must be connected from this pin to AGND and is used to control the amplitudes of the DAC outputs.
22	SCLK	I	I^{2}C Port Serial Interface Clock Input.
21	SDA	I/O	I^{2}C Port Serial Data Input/Output.
20	ALSB	I	TTL Address Input. This signal sets up the LSB of the I^{2}C address. When this pin is tied low, the I^{2}C filter is activated, reducing noise on the I^{2}C interface.
1	V_{DD_IO}	P	Power Supply for Digital Inputs and Outputs.
10, 56	V_{DD}	P	Digital Power Supply.
41	V_{AA}	P	Analog Power Supply.
46	V_{REF}	I/O	Optional External Voltage Reference Input for DACs or Voltage Reference Output (1.235 V).
34	EXT_LF	I	External Loop Filter for the Internal PLL.
31	RTC_SCR_TR	I	Multifunctional Input. Real-time control (RTC) input, timing reset input, subcarrier reset input.
19	I^{2}C	I	This input pin must be tied high (V_{DD_IO}) for the ADV7314 to interface over the I^{2}C port.
64	GND_IO		Digital Input/Output Ground.

PM01 / QN01: ADV7310

FUNCTIONAL BLOCK DIAGRAM


STANDARD DEFINITION CONTROL BLOCK
COLOR CONTROL
BRIGHTNESS
DNR
GAMMA
PROGRAMMABLE FILTERS
SD TEST PATTERN
ADV7310/
ADV7311
12-BIT DAC
12-BIT DAC
12-BIT DAC
12-BIT DAC
12-BIT DAC
12-BIT DAC
OVERSAMPLING
Y9–Y0
C9–C0
S9–S0
DEMUX
PROGRAMMABLE RGB MATRIX
HIGH DEFINITION CONTROL BLOCK
HD TEST PATTERN
COLOR CONTROL
ADAPTIVE FILTER CTRL
SHARPNESS FILTER
HSYNC
VSYNC
BLANK
TIMING GENERATOR
CLKIN_A
CLKIN_B
PLL
I2C INTERFACE

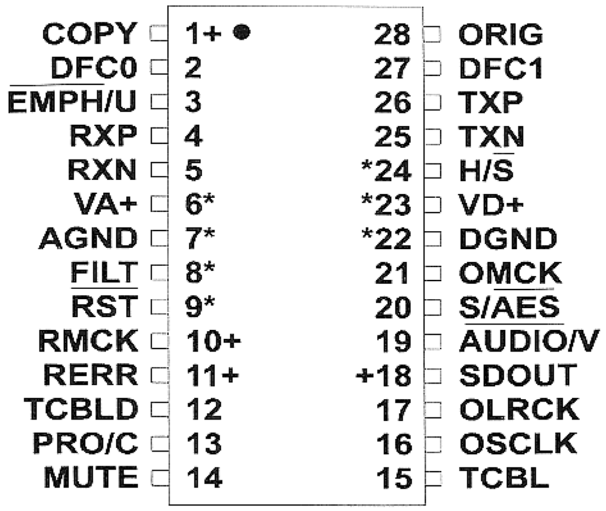
PIN CONFIGURATION


GND_IO 64
CLKIN_B 63
S9 62
S8 61
S7 60
S6 59
S5 58
DGND 57
VDD 56
S4 55
S3 54
S2 53
S1 52
S0 51
S_HSYNC 50
S_VSYNC 49
VDD_IO 1
Y0 2
Y1 3
Y2 4
Y3 5
Y4 6
Y5 7
Y6 8
Y7 9
VDD 10
DGND 11
Y8 12
Y9 13
C0 14
C1 15
C2 16
PIN 1 IDENTIFIER
ADV7310/ADV7311
TOP VIEW
(Not to Scale)
48 S_BLANK
47 RSET1
46 VREF
45 COMP1
44 DAC A
43 DAC B
42 DAC C
41 VAA
40 AGND
39 DAC D
38 DAC E
37 DAC F
36 COMP2
35 RSET2
34 EXT_LF
33 RESET
17 C3
18 C4
19 I2C
20 ALSB
21 SDA
22 SCLK
23 P_HSYNC
24 P_VSYNC
25 P_BLANK
26 C5
27 C6
28 C7
29 C8
30 C9
31 RTC_SCR_TR
32 CLKIN_A

PIN FUNCTION DESCRIPTIONS

Mnemonic	Input/Output	Function
DGND	G	Digital Ground.
AGND	G	Analog Ground.
CLKIN_A	I	Pixel Clock Input for HD (74.25 MHz Only, PS Only (27 MHz), SD Only (27 MHz).
CLKIN_B	I	Pixel Clock Input. Requires a 27 MHz reference clock for progressive scan mode or a 74.25 MHz (74.1758 MHz) reference clock in HDTV mode. This clock is only used in dual modes.
COMP1,2	O	Compensation Pin for DACs. Connect 0.1 µF capacitor from COMP pin to V_{AA}.
DAC A	O	CVBS/Green/Y/Y Analog Output.
DAC B	O	Chroma/Blue/U/Pb Analog Output.
DAC C	O	Luma/Red/V/Pr Analog Output.
DAC D	O	In SD Only Mode: CVBS/Green/Y Analog Output; in HD Only Mode and Simultaneous HD/SD Mode: Y/Green [HD] Analog Output.
DAC E	O	In SD Only Mode: Luma/Blue/U Analog Output; in HD Only Mode and Simultaneous HD/SD Mode: Pr/Red Analog Output.
DAC F	O	In SD Only Mode: Chroma/Red/V Analog Output; in HD Only Mode and Simultaneous HD/SD Mode: Pb/Blue [HD] Analog Output.
P_HSYNC	I	Video Horizontal Sync Control Signal for HD in Simultaneous SD/HD Mode and HD Only Mode.
P_VSYNC	I	Video Vertical Sync Control Signal for HD in Simultaneous SD/HD Mode and HD Only Mode.
P_BLANK	I	Video Blanking Control Signal for HD in Simultaneous SD/HD Mode and HD Only Mode.
S_BLANK	I/O	Video Blanking Control Signal for SD Only.
S_HSYNC	I/O	Video Horizontal Sync Control Signal for SD Only.
S_VSYNC	I/O	Video Vertical Sync Control Signal for SD Only.
Y9–Y0	I	SD or Progressive Scan/HDTV Input Port for Y Data. Input port for interleaved progressive scan data. The LSB is set up on Pin Y0. For 8-bit data input, LSB is set up on Y2.
C9–C0	I	Progressive Scan/HDTV Input Port 4:4:4 Input Mode. This port is used for the Cb[Blue/U] data. The LSB is set up on pin C0. For 8-bit data input, LSB is set up on C2.
S9–S0	I	SD or Progressive Scan/HDTV Input Port for Cr[Red/V] data in 4:4:4 input mode. LSB is set up on pin S0. For 8-bit data input, LSB is set up on S2.
RESET	I	This input resets the on-chip timing generator and sets the ADV7310/ADV7311 into default register setting. RESET is an active low signal.
$R_{SET1,2}$	I	A 3040Ω resistor must be connected from this pin to AGND and is used to control the amplitudes of the DAC outputs.
SCLK	I	I^{2}C Port Serial Interface Clock Input.
SDA	I/O	I^{2}C Port Serial Data Input/Output.
ALSB	I	TTL Address Input. This signal sets up the LSB of the I^{2}C address. When this pin is tied low, the I^{2}C filter is activated, which reduces noise on the I^{2}C interface.
V_{DD_IO}	P	Power Supply for Digital Inputs and Outputs.
V_{DD}	P	Digital Power Supply.
V_{AA}	P	Analog Power Supply.
V_{REF}	I/O	Optional External Voltage Reference Input for DACs or Voltage Reference Output (1.235 V).
EXT_LF	I	External Loop Filter for the Internal PLL.
RTC_SCR_TR	I	Multifunctional Input. Real time control (RTC) input, timing reset input, subcarrier reset input.
I^{2}C	I	This input pin must be tied high (V_{DD_IO}) for the ADV7310/ADV7311 to interface over the I^{2}C port.
GND_IO		Digital Input/Output Ground.

PM01 / Q304: CS8420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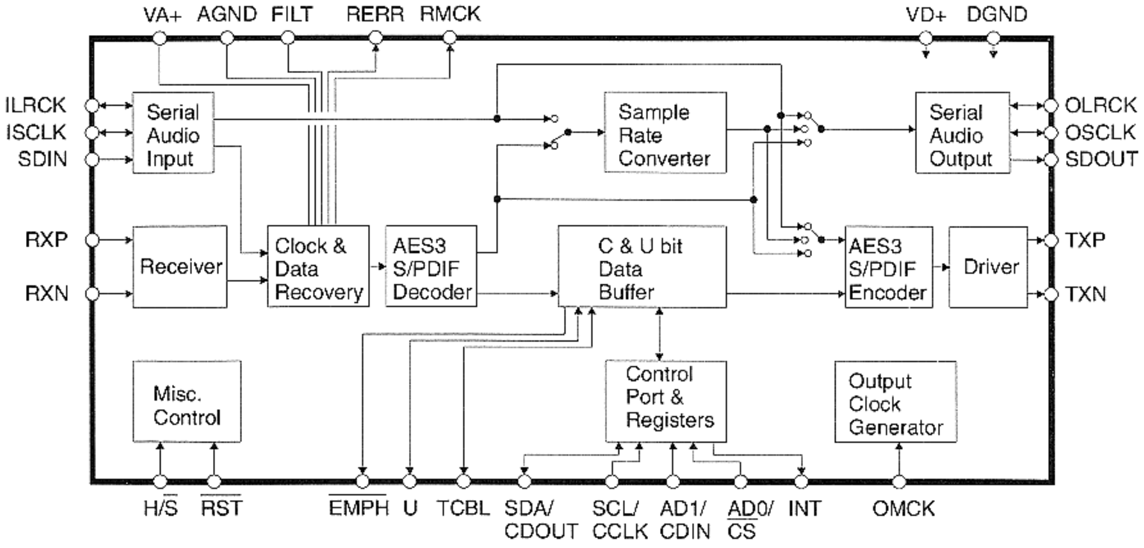
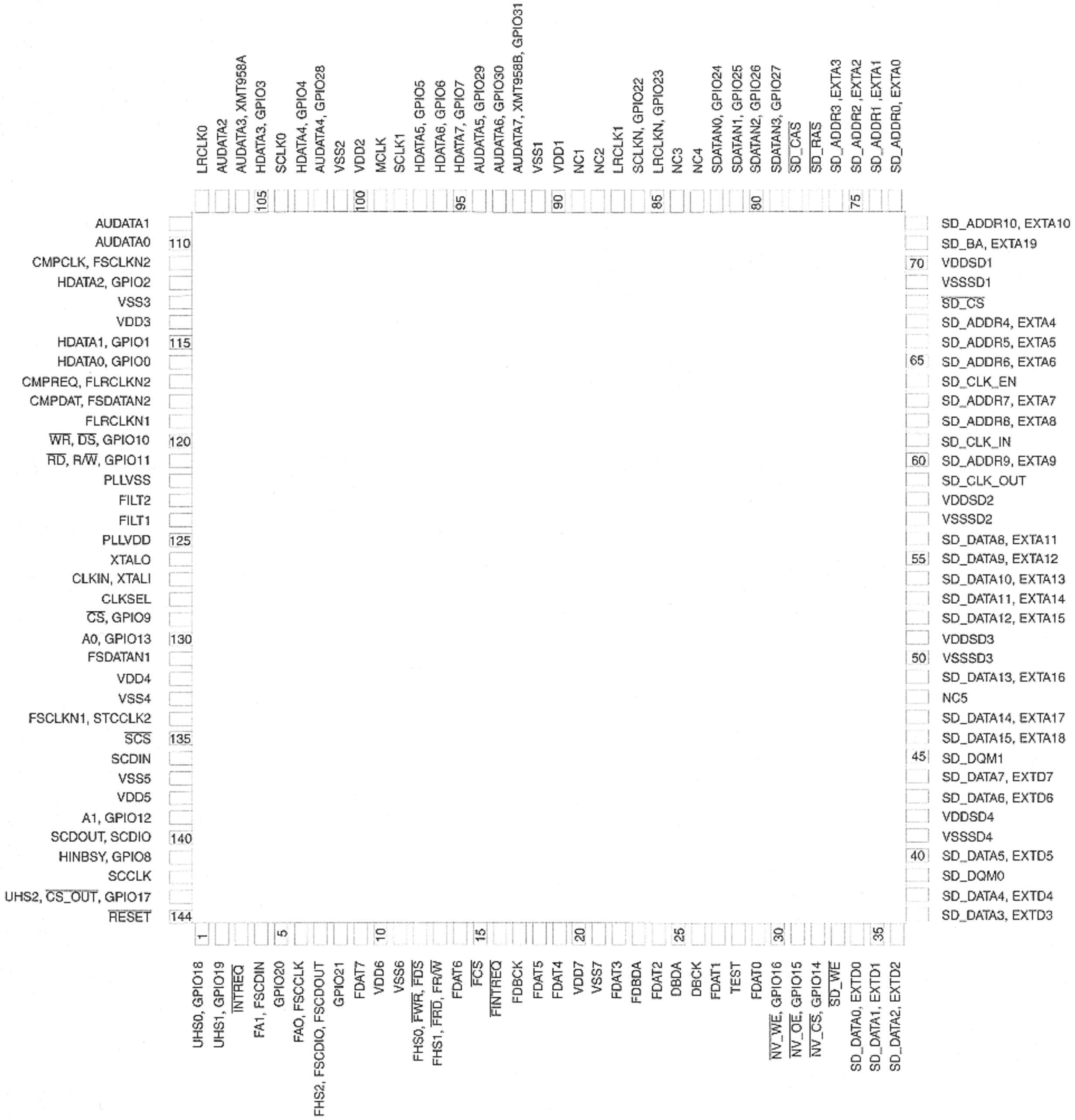
DFC0 2
EMPH/U 3
RXP 4
RXN 5
VA+ 6*
AGND 7*
FILT 8*
RST 9*
RMCK 10+
RERR 11+
TCBLD 12
PRO/C 13
MUTE 14
28 ORIG
27 DFC1
26 TXP
25 TXN
*24 H/S
*23 VD+
*22 DGND
21 OMCK
20 S/AES
19 AUDIO/V
+18 SDOUT
17 OLRCK
16 OSCLK
15 TCBL


VA+
AGND
FILT
RERR
RMCK
VD+
DGND
ILRCK
ISCLK
SDIN
Serial Audio Input
Sample Rate Converter
Serial Audio Output
OLRCK
OSCLK
SDOUT
RXP
RXN
Receiver
Clock & Data Recovery
AES3 S/PDIF Decoder
C & U bit Data Buffer
AES3 S/PDIF Encoder
Driver
TXP
TXN
Misc. Control
Control Port & Registers
Output Clock Generator
H/S
RST
EMPH
U
TCBL
SDA/ CDOUT
SCL/ CCLK
AD1/ CDIN
AD0/ CS
INT
OMCK

PM01 / Q301: CS494003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AUDATA2
AUDATA3, XMT958A
HDATA3, GPIO3
SCLK0
HDATA4, GPIO4
AUDATA4, GPIO28
VSS2
VDD2
MCLK
SCLK1
HDATA5, GPIO5
HDATA6, GPIO6
HDATA7, GPIO7
AUDATA5, GPIO29
AUDATA6, GPIO30
AUDATA7, XMT958B, GPIO31
VSS1
VDD1
NC1
NC2
LRCLK1
SCLKN, GPIO22
LRCLKN, GPIO23
NC3
NC4
SDATAN0, GPIO24
SDATAN1, GPIO25
SDATAN2, GPIO26
SDATAN3, GPIO27
SD_CAS
SD_RAS
SD_ADDR3 ,EXTA3
SD_ADDR2 ,EXTA2
SD_ADDR1 ,EXTA1
SD_ADDR0, EXTA0
105
100
95
90
85
80
75
AUDATA1
AUDATA0
CMPCLK, FSCLKN2
HDATA2, GPIO2
VSS3
VDD3
HDATA1, GPIO1
HDATA0, GPIO0
CMPREQ, FLRCLKN2
CMPDAT, FSDATAN2
FLRCLKN1
WR, DS, GPIO10
RD, R/W, GPIO11
PLLVSS
FILT2
FILT1
PLLVDD
XTALO
CLKIN, XTALI
CLKSEL
CS, GPIO9
A0, GPIO13
FSDATAN1
VDD4
VSS4
FSCLKN1, STCCLK2
SCS
SCDIN
VSS5
VDD5
A1, GPIO12
SCDOUT, SCDIO
HINBSY, GPIO8
SCCLK
UHS2, CS_OUT, GPIO17
RESET
110
115
120
125
130
135
140
144
SD_ADDR10, EXTA10
SD_BA, EXTA19
VDDSD1
VSSSD1
SD_CS
SD_ADDR4, EXTA4
SD_ADDR5, EXTA5
SD_ADDR6, EXTA6
SD_CLK_EN
SD_ADDR7, EXTA7
SD_ADDR8, EXTA8
SD_CLK_IN
SD_ADDR9, EXTA9
SD_CLK_OUT
VDDSD2
VSSSD2
SD_DATA8, EXTA11
SD_DATA9, EXTA12
SD_DATA10, EXTA13
SD_DATA11, EXTA14
SD_DATA12, EXTA15
VDDSD3
VSSSD3
SD_DATA13, EXTA16
NC5
SD_DATA14, EXTA17
SD_DATA15, EXTA18
SD_DQM1
SD_DATA7, EXTD7
SD_DATA6, EXTD6
VDDSD4
VSSSD4
SD_DATA5, EXTD5
SD_DQM0
SD_DATA4, EXTD4
SD_DATA3, EXTD3
70
65
60
55
50
45
40
1
5
10
15
20
25
30
35
UHS0, GPIO18
UHS1, GPIO19
INTREQ
FA1, FSCDIN
GPIO20
FAO, FSCCLK
FHS2, FSCDIO, FSCDOUT
GPIO21
FDAT7
VDD6
VSS6
FHS0, FWR, FDS
FHS1, FRD, FR/W
FDAT6
FCS
FINTREQ
FDBCK
FDAT5
FDAT4
VDD7
VSS7
FDAT3
FDBDA
FDAT2
DBDA
DBCK
FDAT1
TEST
FDAT0
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NV_OE, GPIO15
NV_CS, GPIO14
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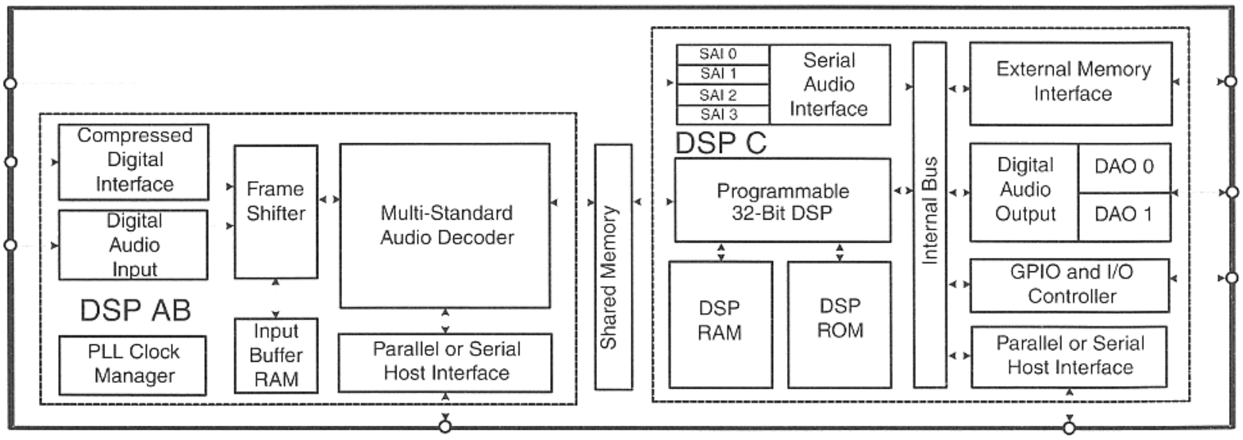
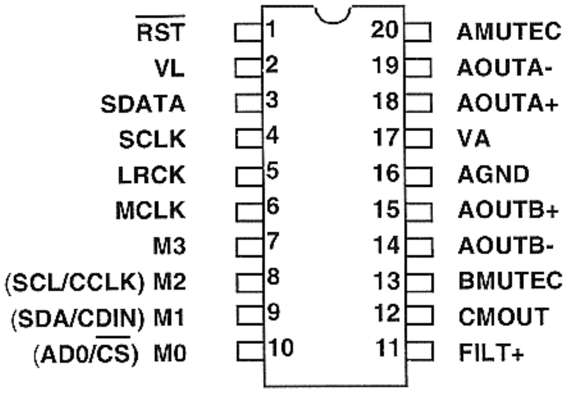
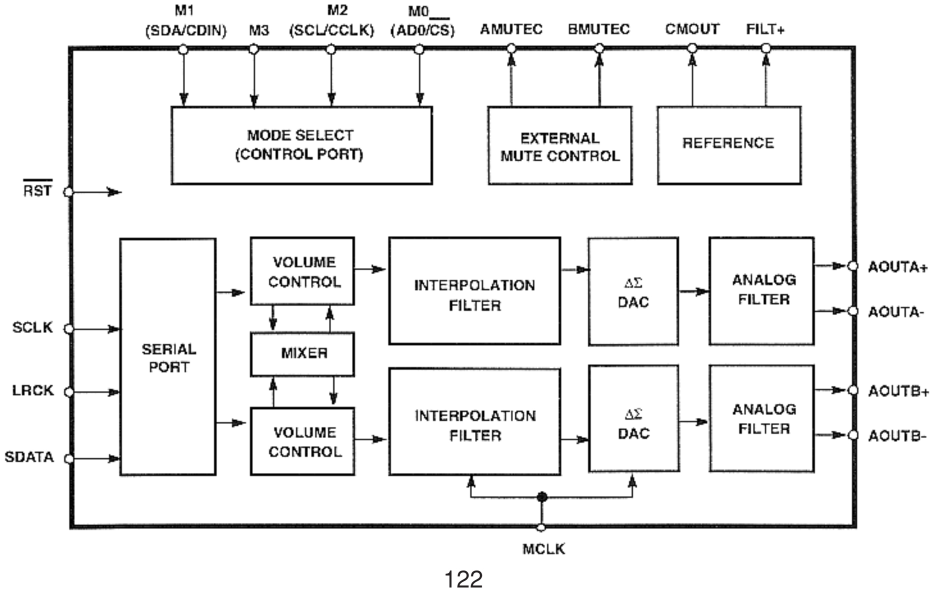
SD_DATA0, EXTD0
SD_DATA1, EXTD1
SD_DATA2, EXTD2


Compressed Digital Interface
Digital Audio Input
Frame Shifter
Multi-Standard Audio Decoder
DSP AB
PLL Clock Manager
Input Buffer RAM
Parallel or Serial Host Interface
Shared Memory
SAI 0
SAI 1
SAI 2
SAI 3
Serial Audio Interface
DSP C
Programmable 32-Bit DSP
DSP RAM
DSP ROM
Internal Bus
External Memory Interface
Digital Audio Output
DAO 0
DAO 1
GPIO and I/O Controller
Parallel or Serial Host Interface

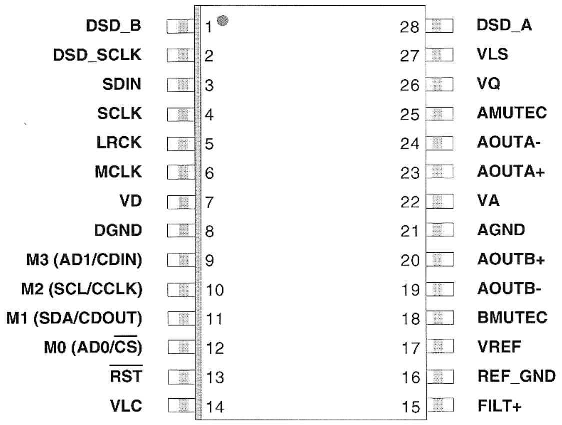
PM01 / Q950: CS4392


$\overline{\text{RST}}$ 1
VL 2
SDATA 3
SCLK 4
LRCK 5
MCLK 6
M3 7
(SCL/CCLK) M2 8
(SDA/CDIN) M1 9
(AD0/$\overline{\text{CS}}$) M0 10
20 AMUTEC
19 AOUTA-
18 AOUTA+
17 VA
16 AGND
15 AOUTB+
14 AOUTB-
13 BMUTEC
12 CMOUT
11 FILT+

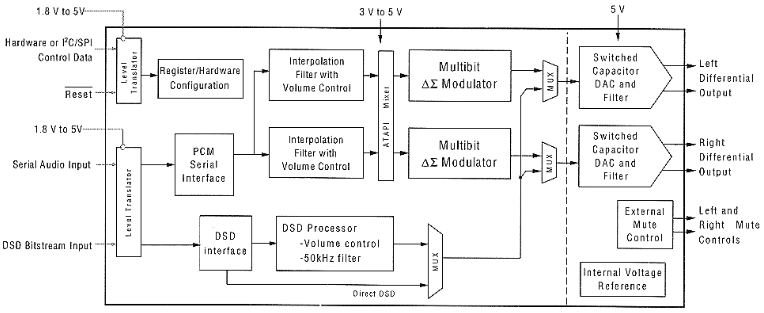
$\overline{\text{RST}}$	1	**Reset** (*Input*) - Powers down device and resets all internal registers to their default settings.
VL	2	**Logic Power** (*Input*) - Positive power for the digital input/output.
SDATA	3	**Serial Audio Data** (*Input*) - Input for two's complement serial audio data.
SCLK	4	**Serial Clock** (*Input/Output*) - Serial clock for the serial audio interface.
LRCK	5	**Left Right Clock** (*Input/Output*) - Determines which channel, Left or Right, is currently active on the serial audio data line.
MCLK	6	**Master Clock** (*Input*) - Clock source for the delta-sigma modulator and digital filters.
FILT+	11	**Positive Voltage Reference** (*Output*) - Positive reference voltage for the internal sampling circuits.
CMOUT	12	**Common Mode Voltage** (*Output*) - Filter connection for internal quiescent voltage.
AMUTEC BMUTEC	20 13	**Mute Control** (*Output*) - The Mute Control pin goes high during power-up initialization, reset, muting, power-down or if the master clock to left/right clock frequency ratio is incorrect.
AOUTB- AOUTB+ AOUTA+ AOUTA	14 15 18 19	**Differential Analog Output** (*Outputs*) - The full scale differential analog output level is specified in the Analog Characteristics specification table.
AGND	16	**Ground** (*Input*)
VA	17	**Analog Power** (*Input*) - Positive power for the analog section.
Control Port Mode Definitions		
M3	7	**Mode Selection** (*Input*) - This pins should be tied to GND level during control port mode.
SCL/CCLK	8	**Serial Control Port Clock** (*Input*) - Serial clock for the serial control port.
SDA/CDIN	9	**Serial Control Data** (*Input/Output*) - SDA is a data I/O line in I^{2}C mode. CDIN is the input data line for the control port interface in SPI mode.
AD0/$\overline{\text{CS}}$	10	**Address Bit 0 (I^{2}C) / Control Port Chip Select (SPI)** (*Input/Output*) - AD0 is a chip address pin in I^{2}C mode; $\overline{\text{CS}}$ is the chip select signal for SPI format.
Stand-Alone Mode Definitions		
M3 M2 M1 M0	7 8 9 10	**Mode Selection** (*Input*) - Determines the operational mode of the device.


M1 (SDA/CDIN)
M3
M2 (SCL/CCLK)
M0 (AD0/$\overline{\text{CS}}$)
AMUTEC
BMUTEC
CMOUT
FILT+
MODE SELECT (CONTROL PORT)
EXTERNAL MUTE CONTROL
REFERENCE
$\overline{\text{RST}}$
SCLK
LRCK
SDATA
SERIAL PORT
VOLUME CONTROL
MIXER
VOLUME CONTROL
INTERPOLATION FILTER
INTERPOLATION FILTER
ΔΣ DAC
ΔΣ DAC
ANALOG FILTER
ANALOG FILTER
AOUTA+
AOUTA-
AOUTB+
AOUTB-
MCLK

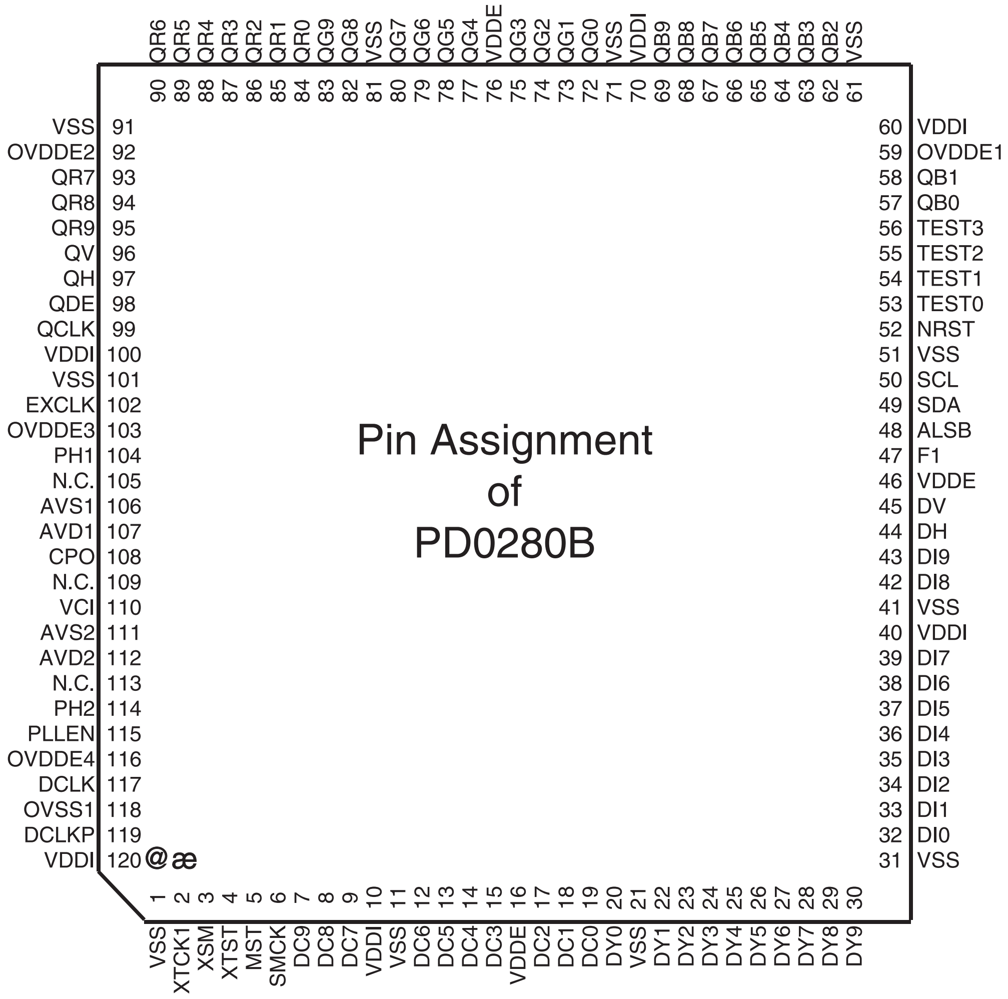
PA01 / QD01: CS4398


DSD_B
1
DSD_SCLK
2
SDIN
3
SCLK
4
LRCK
5
MCLK
6
VD
7
DGND
8
M3 (AD1/CDIN)
9
M2 (SCL/CCLK)
10
M1 (SDA/CDOUT)
11
M0 (AD0/$\overline{\text{CS}}$)
12
$\overline{\text{RST}}$
13
VLC
14
28
DSD_A
27
VLS
26
VQ
25
AMUTEC
24
AOUTA-
23
AOUTA+
22
VA
21
AGND
20
AOUTB+
19
AOUTB-
18
BMUTEC
17
VREF
16
REF_GND
15
FILT+

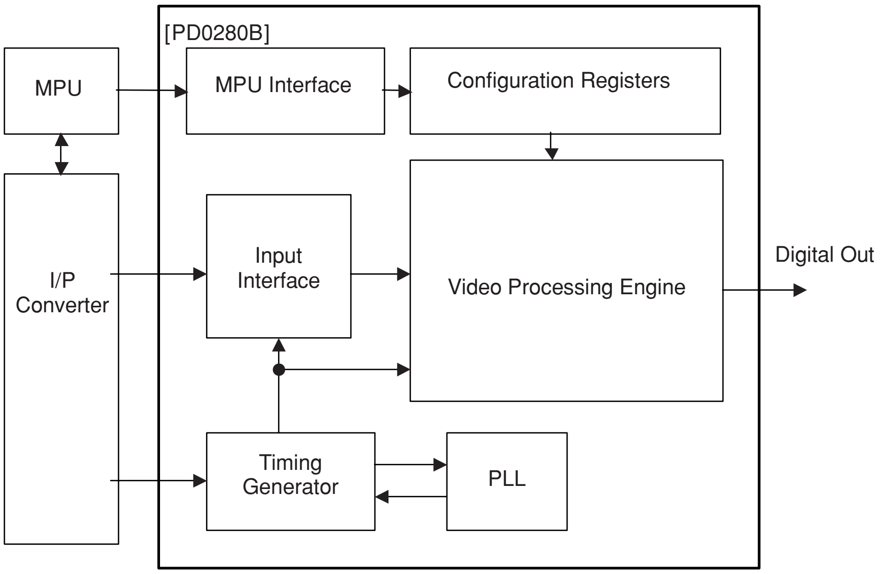
Pin Name	#	Pin Description
DSD_A DSD_B	28 1	**Direct Stream Digital Input** (*Input*) - Input for Direct Stream Digital serial audio data.
DSD_SCLK	2	**DSD Serial Clock** (*Input*) - Serial clock for the Direct Stream Digital audio interface.
SDIN	3	**Serial Audio Data Input** (*Input*) - Input for two's complement serial audio data.
SCLK	4	**Serial Clock** (*Input*) - Serial clock for the serial audio interface.
LRCK	5	**Left Right Clock** (*Input*) - Determines which channel, Left or Right, is currently active on the serial audio data line.
MCLK	6	**Master Clock** (*Input*) - Clock source for the delta-sigma modulator and digital filters.
VD	7	**Digital Power** (*Input*) - Positive power for the digital section.
DGND	8	**Digital Ground** (*Input*) - Ground reference for the digital section.
$\overline{\text{RST}}$	13	**Reset** (*Input*) - The device enters system reset when enabled.
VLC	14	**Control Port Power** (*Input*) - Positive power for Control Port I/O.
FILT+	15	**Positive Voltage Reference** (*Output*) - Positive reference voltage for the internal sampling circuits.
REF_GND	16	**Reference Ground** (*Input*) - Ground reference for the internal sampling circuits.
VREF	17	**Voltage Reference** (*Input*) - Positive voltage reference for the internal sampling circuits.
BMUTEC AMUTEC	18 25	**Mute Control** (*Output*) - The Mute Control pin is active during power-up initialization, muting, power-down or if the master clock to left/right clock frequency ratio is incorrect. During reset these outputs are set to a high impedance.
AOUTB+ AOUTB-	20 19	**Differential Right Channel Analog Output** (*Output*) - The full scale differential analog output level is specified in the Analog Characteristics specification table.
AGND	21	**Analog Ground** (*Input*) - Ground reference for the analog section.
VA	22	**Analog Power** (*Input*) - Positive power for the analog section.
AOUTA+ AOUTA-	23 24	**Differential Left Channel Analog Output** (*Output*) - The full scale differential analog output level is specified in the Analog Characteristics specification table.
VQ	26	**Quiescent Voltage** (*Output*) - Filter connection for internal quiescent voltage.
VLS	27	**Serial Audio Interface Power** (*Input*) - Positive power for serial audio interface I/O.
Stand Alone Mode Definitions		
M3 M2 M1 M0	9 10 11 12	**Mode Selection** (*Input*) - Determines the operational mode of the device.
Control Port Mode Definitions		
AD1/CDIN	9	**Address Bit 1 (I^2C) / Control Data Input (SPI)** (*Input*) - AD1 is a chip address pin in I^2C mode; CDIN is the input data line for the Control Port interface in SPI mode.
SCL/CCLK	10	**Serial Control Port Clock** (*Input*) - Serial clock for the serial Control Port.
SDA/CDOUT	11	**Serial Control Data (I^2C) / Control Data Output (SPI)** (*Input/Output*) - SDA is a data I/O line in I^2C mode. CDOUT is the output data line for the Control Port interface in SPI mode.
AD0/$\overline{\text{CS}}$	12	**Address Bit 0 (I^2C) / Control Port Chip Select (SPI)** (*Input*) - AD0 is a chip address pin in I^2C mode; $\overline{\text{CS}}$ is the chip select signal for SPI format.


1.8 V to 5V
Hardware or I²C/SPI Control Data
$\overline{\text{Reset}}$
1.8 V to 5V
Serial Audio Input
DSD Bitstream Input
Level Translator
Register/Hardware Configuration
PCM Serial Interface
Level Translator
Interpolation Filter with Volume Control
Interpolation Filter with Volume Control
DSD interface
DSD Processor -Volume control -50kHz filter
3 V to 5 V
ATAPI Mixer
Multibit ΔΣ Modulator
Multibit ΔΣ Modulator
MUX
MUX
MUX
Direct DSD
5 V
Switched Capacitor DAC and Filter
Switched Capacitor DAC and Filter
External Mute Control
Internal Voltage Reference
Left Differential Output
Right Differential Output
Left and Right Mute Controls

PT01 / QW01: PD0280B


Pin Assignment
of
PD0280B
90 QR6
89 QR5
88 QR4
87 QR3
86 QR2
85 QR1
84 QR0
83 QG9
82 QG8
81 VSS
80 QG7
79 QG6
78 QG5
77 QG4
76 VDDE
75 QG3
74 QG2
73 QG1
72 QG0
71 VSS
70 VDDI
69 QB9
68 QB8
67 QB7
66 QB6
65 QB5
64 QB4
63 QB3
62 QB2
61 VSS
VSS 91
OVDDE2 92
QR7 93
QR8 94
QR9 95
QV 96
QH 97
QDE 98
QCLK 99
VDDI 100
VSS 101
EXCLK 102
OVDDE3 103
PH1 104
N.C. 105
AVS1 106
AVD1 107
CPO 108
N.C. 109
VCI 110
AVS2 111
AVD2 112
N.C. 113
PH2 114
PLLEN 115
OVDDE4 116
DCLK 117
OVSS1 118
DCLKP 119
VDDI 120
@æ
60 VDDI
59 OVDDE1
58 QB1
57 QB0
56 TEST3
55 TEST2
54 TEST1
53 TEST0
52 NRST
51 VSS
50 SCL
49 SDA
48 ALSB
47 F1
46 VDDE
45 DV
44 DH
43 DI9
42 DI8
41 VSS
40 VDDI
39 DI7
38 DI6
37 DI5
36 DI4
35 DI3
34 DI2
33 DI1
32 DI0
31 VSS
1 VSS
2 XTCK1
3 XSM
4 XTST
5 MST
6 SMCK
7 DC9
8 DC8
9 DC7
10 VDDI
11 VSS
12 DC6
13 DC5
14 DC4
15 DC3
16 VDDE
17 DC2
18 DC1
19 DC0
20 DY0
21 VSS
22 DY1
23 DY2
24 DY3
25 DY4
26 DY5
27 DY6
28 DY7
29 DY8
30 DY9

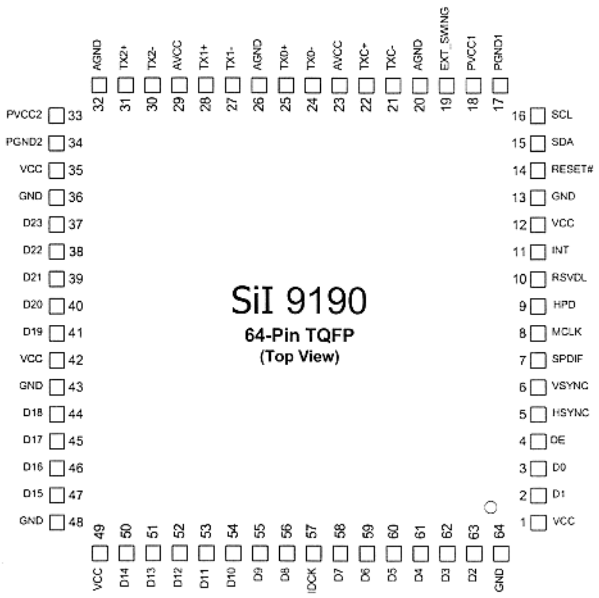
System Block Diagram

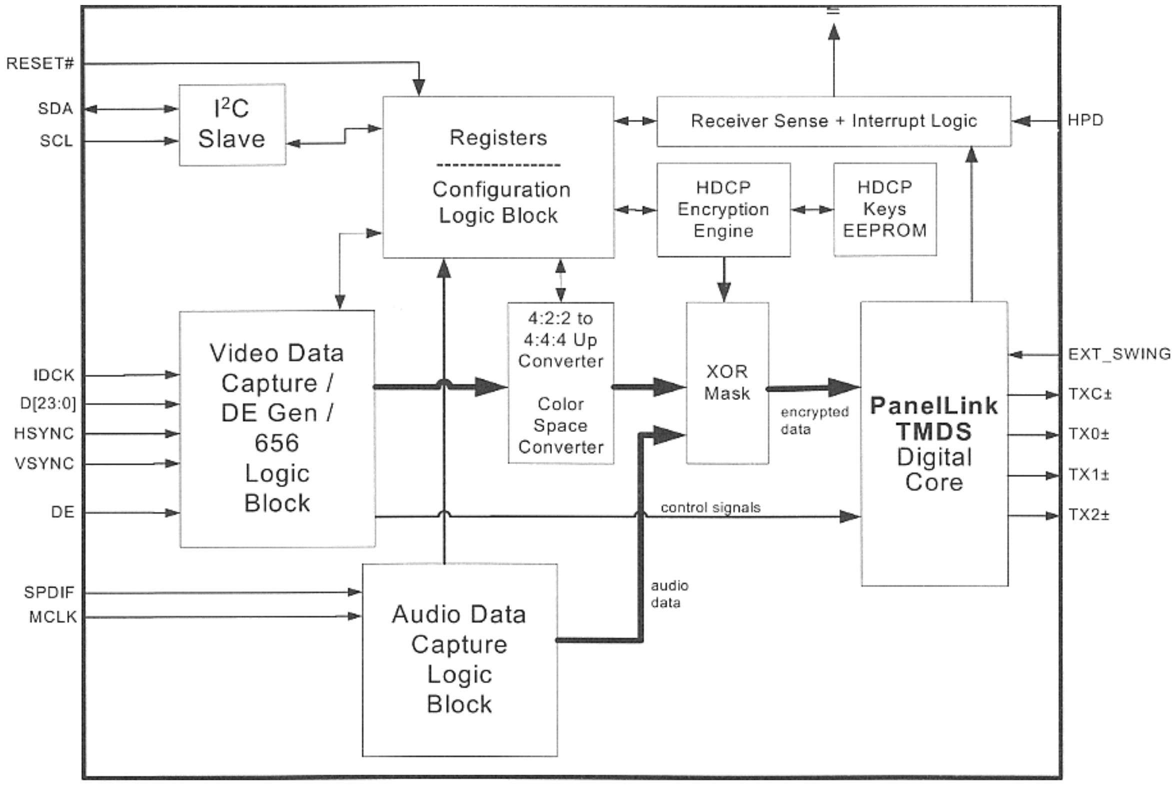

[PD0280B]
MPU
MPU Interface
Configuration Registers
I/P
Converter
Input
Interface
Video Processing Engine
Digital Out
Timing
Generator
PLL

No.	Name	I/O[1]	Attribute	Functional Description
1	VSS	P	-	Digital Ground
2	XTCK1	In	CMOS	Input pin, for testing only (Connect to Ground)
3	XSM	In	CMOS	Input pin, for testing only (Connect to VDDE)
4	XTST	In	CMOS	Input pin, for testing only (Connect to VDDE)
5	MST	In	CMOS	Input pin, for testing only (Connect to Ground)
6	SMCK	In	CMOS	Input pin, for testing only (Connect to VDDE)
7	DC9	In	CMOS	Input pin for color signal (MSB)
8	DC8	In	CMOS	Input pin for color signal
9	DC7	In	CMOS	Input pin for color signal
10	VDDI	P	-	VDD for Core (2.5V)
11	VSS	P	-	Digital Ground
12	DC6	In	CMOS	Input pin for color signal
13	DC5	In	CMOS	Input pin for color signal
14	DC4	In	CMOS	Input pin for color signal
15	DC3	In	CMOS	Input pin for color signal
16	VDDE	P	-	VDD for I/O (3.3V)
17	DC2	In	CMOS	Input pin for color signal
18	DC1	In	CMOS	Input pin for color signal
19	DC0	In	CMOS	Input pin for color signal (LSB)
20	DY0	In	CMOS	Input pin for luminance signal (LSB)
21	VSS	P	-	Digital Ground
22	DY1	In	CMOS	Input pin for luminance signal
23	DY2	In	CMOS	Input pin for luminance signal
24	DY3	In	CMOS	Input pin for luminance signal
25	DY4	In	CMOS	Input pin for luminance signal
26	DY5	In	CMOS	Input pin for luminance signal
27	DY6	In	CMOS	Input pin for luminance signal
28	DY7	In	CMOS	Input pin for luminance signal
29	DY8	In	CMOS	Input pin for luminance signal
30	DY9	In	CMOS	Input pin for luminance signal (MSB)
31	VSS	P	-	Digital Ground
32	DI0	In	CMOS	Input pin for through data (LSB)
33	DI1	In	CMOS	Input pin for through data
34	DI2	In	CMOS	Input pin for through data
35	DI3	In	CMOS	Input pin for through data
36	DI4	In	CMOS	Input pin for through data
37	DI5	In	CMOS	Input pin for through data
38	DI6	In	CMOS	Input pin for through data
39	DI7	In	CMOS	Input pin for through data
40	VDDI	P	-	VDD for Core (2.5V)
41	VSS	P	-	Digital Ground
42	DI8	In	CMOS	Input pin for through data
43	DI9	In	CMOS	Input pin for through data (MSB)
44	DH	In	Schmitt	Input pin for horizontal synchronization signal
45	DV	In	Schmitt	Input pin for vertical synchronization signal
46	VDDE	P	-	VDD for I/O (3.3V)
47	F1	In	CMOS	Input pin for field identification signal
48	ALSB	In	CMOS	Setting pin for I^{2}C slave address
49	SDA	Inout	Schmitt, 4mA	Input/ output pin for I^{2}C data
50	SCL	In	Schmitt	Input pin for I^{2}C clock
51	VSS	P	-	Digital Ground
52	NRST	In	Schmitt	Input pin for system reset (Low Active)
53	TEST0	In	CMOS	Input pin, for testing only (Connect to Ground)
54	TEST1	In	CMOS	Input pin, for testing only (Connect to Ground)
55	TEST2	In	CMOS	Input pin, for testing only (Connect to Ground)
56	TEST3	In	CMOS	Input pin, for testing only (Connect to Ground)
57	QB0	Out	4mA	Output pin for image data B (LSB)
58	QB1	Out	4mA	Output pin for image data B
59	OVDDE1	P	-	VDD for I/O (3.3V)
60	VDDI	P	-	VDD for Core (2.5V)
61	VSS	P	-	Digital Ground
62	QB2	Out	4mA	Output pin for image data B
63	QB3	Out	4mA	Output pin for image data B
64	QB4	Out	4mA	Output pin for image data B
65	QB5	Out	4mA	Output pin for image data B
66	QB6	Out	4mA	Output pin for image data B
67	QB7	Out	4mA	Output pin for image data B
68	QB8	Out	4mA	Output pin for image data B
69	QB9	Out	4mA	Output pin for image data B (MSB)
70	VDDI	P	-	VDD for Core (2.5V)
71	VSS	P	-	Digital Ground
72	QG0	Out	4mA	Output pin for image data G (LSB)
73	QG1	Out	4mA	Output pin for image data G
74	QG2	Out	4mA	Output pin for image data G
75	QG3	Out	4mA	Output pin for image data G
76	VDDE	P	-	VDD for I/O (3.3V)
77	QG4	Out	4mA	Output pin for image data G
78	QG5	Out	4mA	Output pin for image data G
79	QG6	Out	4mA	Output pin for image data G
80	QG7	Out	4mA	Output pin for image data G
81	VSS	P	-	Digital ground
82	QG8	Out	4mA	Output pin for image data G
83	QG9	Out	4mA	Output pin for image data G (MSB)
84	QR0	Out	4mA	Output pin for image data R (LSB)
85	QR1	Out	4mA	Output pin for image data R
86	QR2	Out	4mA	Output pin for image data R
87	QR3	Out	4mA	Output pin for image data R
88	QR4	Out	4mA	Output pin for image data R
89	QR5	Out	4mA	Output pin for image data R
90	QR6	Out	4mA	Output pin for image data R
91	VSS	P	-	Digital Ground
92	OVDDE2	P	-	VDD for I/O (3.3V)
93	QR7	Out	4mA	Output pin for image data R
94	QR8	Out	4mA	Output pin for image data R
95	QR9	Out	4mA	Output pin for image data R (MSB)
96	QV	Out	4mA	Output pin for vertical synchronization signal
97	QH	Out	4mA	Output pin for horizontal synchronization signal
98	QDE	Out	4mA	Output pin for data enable signal
99	QCLK	Out	8mA	Output pin for pixel clock
100	VDDI	P	-	VDD for Core (2.5V)
101	VSS	P	-	Digital Ground
102	EXCLK	In	CMOS	Input pin for pixel clock for use of external PLL. Be sure to connect this to Ground before using built-in PLL.
103	OVDDE3	P	-	VDD for I/O (3.3V)
104	PH1	Out	2mA	Output pin #1 for signals for phase comparison of external PLL (Reference) Be sure to set this to N.C. before using built-in PLL.
105	N.C.	-	-	Pin for separation of power supply. Set this to N.C.
106	AVS1	P	-	Analog Ground exclusive for PLL
107	AVD1	P	-	Analog VDD exclusive for PLL (3.3V)
108	CPO	Out	Analog	Output pin for charge pump for built-in PLL. Connect this to VCI via loop filter.
109	N.C.	-	-	Pin for separation of power supply. Set this to N.C.
110	VCI	In	Analog	VCO input pin for built-in PLL
111	AVS2	P	-	Analog Ground exclusive for PLL
112	AVD2	P	-	Analog VDD exclusive for PLL (3.3V)
113	N.C.	-	-	Pin for separation of power supply. Set this to N.C.
114	PH2	Out	2mA	Output pin #2 for signals for phase comparison of external PLL (Feedback) Be sure to set this to N.C. before using built-in PLL.
115	PLLEN	In	CMOS	Selection pin for built-in PLL/External PLL Connect this to VDDE before using built-in PLL. Connect this to Ground before using external PLL.
116	OVDDE4	P	-	VDD for I/O (3.3V)
117	DCLK	In	CMOS	Input pin for 27MHz clock
118	OVSS1	P	-	Digital Ground
119	DCLKP	In	CMOS	Setting pin for polarity of DCLK
120	VDDI	P	-	VDD for Core (2.5V)

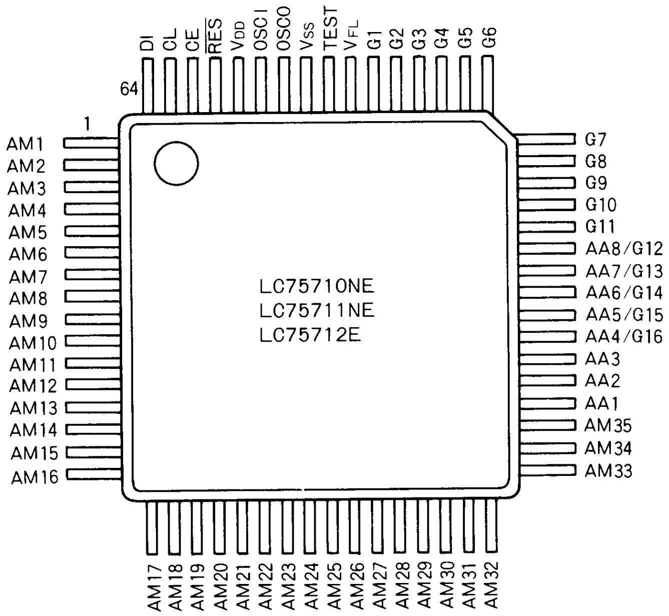
[1] “In”: input pin, “Out”: outputpin, “Inout”: input/output pin, “P”: power supplyor ground pin.
[2] Neither Pull-up nor Pull down is done at the input pins. Be sure not set to Open.
[3] The SDA pin becomes an input pin at Reset. Otherwise it works normally.

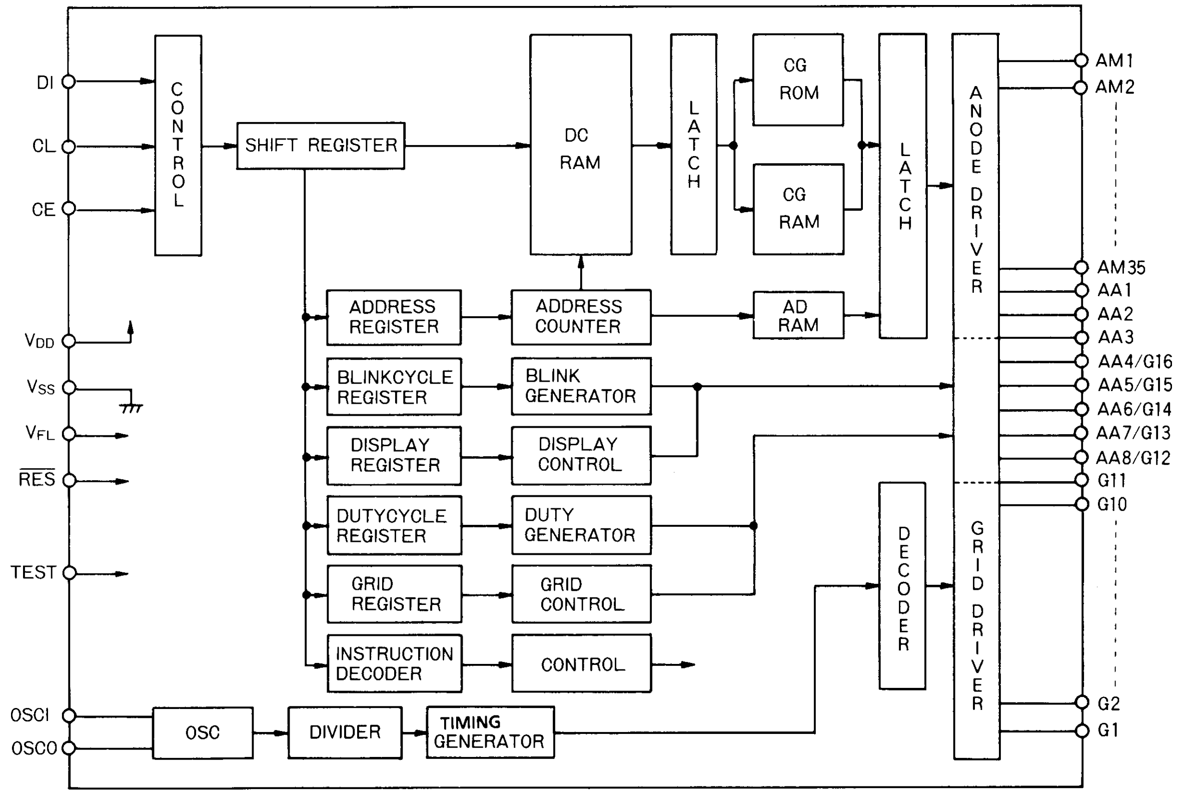
PT01 / QT01: SiI9190


SiI 9190
64-Pin TQFP
(Top View)
1 VCC
2 D1
3 D0
4 DE
5 HSYNC
6 VSYNC
7 SPDIF
8 MCLK
9 HPD
10 RSVDL
11 INT
12 VCC
13 GND
14 RESET#
15 SDA
16 SCL
17 PGND1
18 PVCC1
19 EXT_SWING
20 AGND
21 TXC-
22 TXC+
23 AVCC
24 TX0-
25 TX0+
26 AGND
27 TX1-
28 TX1+
29 AVCC
30 TX2-
31 TX2+
32 AGND
33 PVCC2
34 PGND2
35 VCC
36 GND
37 D23
38 D22
39 D21
40 D20
41 D19
42 VCC
43 GND
44 D18
45 D17
46 D16
47 D15
48 GND
49 VCC
50 D14
51 D13
52 D12
53 D11
54 D10
55 D9
56 D8
57 IDCK
58 D7
59 D6
60 D5
61 D4
62 D3
63 D2
64 GND

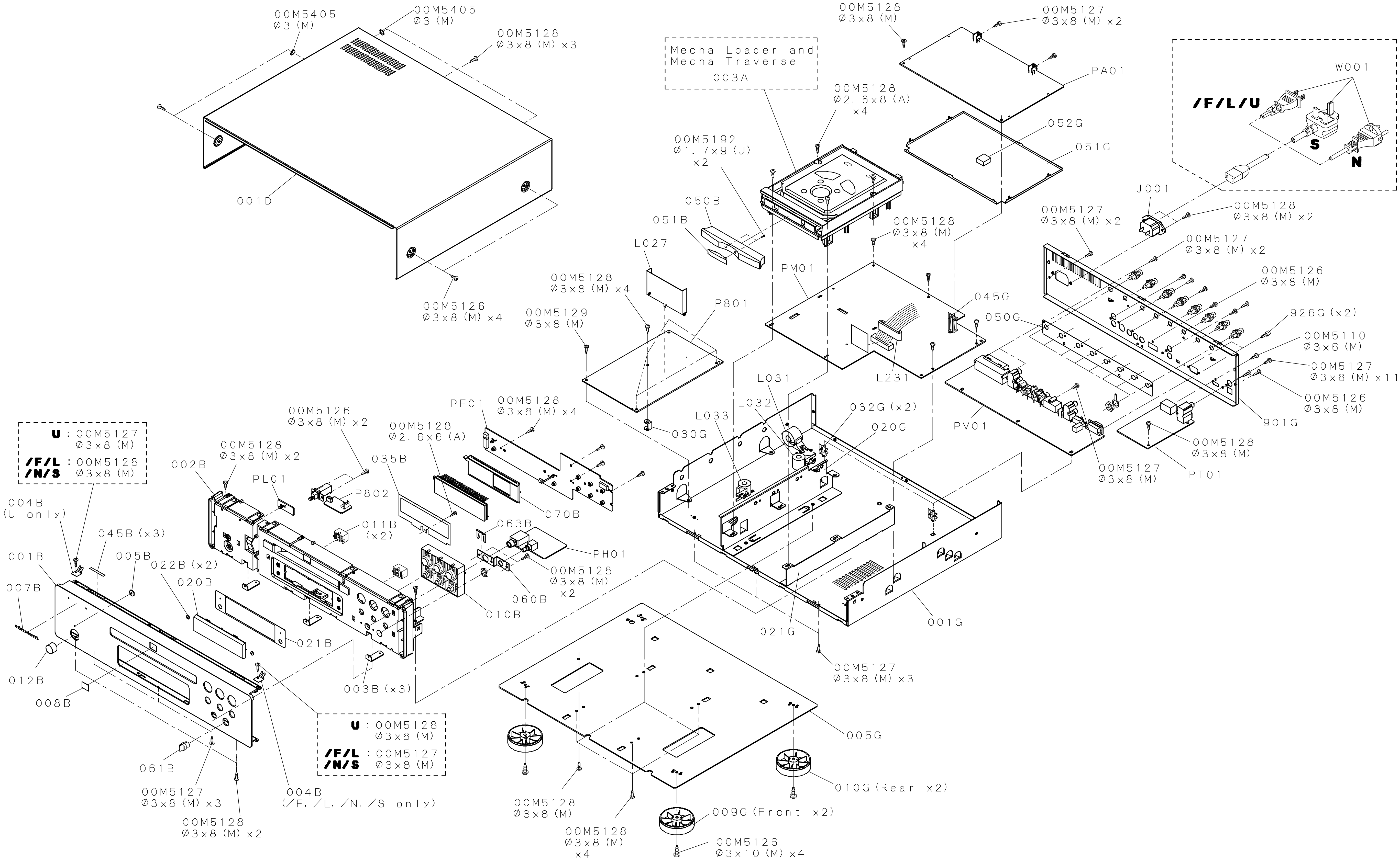

RESET#
SDA
SCL
I2C Slave
Registers
Configuration Logic Block
Receiver Sense + Interrupt Logic
HPD
HDCP Encryption Engine
HDCP Keys EEPROM
INT
IDCK
D[23:0]
HSYNC
VSYNC
DE
Video Data Capture / DE Gen / 656 Logic Block
4:2:2 to 4:4:4 Up Converter
Color Space Converter
XOR Mask
encrypted data
PanelLink TMDS Digital Core
EXT_SWING
TXC±
TX0±
TX1±
TX2±
control signals
SPDIF
MCLK
Audio Data Capture Logic Block
audio data

PF01 / QF71: LC75712E


DI
CL
CE
RES
VDD
OSCI
OSCO
VSS
TEST
VFL
G1
G2
G3
G4
G5
G6
64
1
AM1
AM2
AM3
AM4
AM5
AM6
AM7
AM8
AM9
AM10
AM11
AM12
AM13
AM14
AM15
AM16
LC75710NE
LC75711NE
LC75712E
G7
G8
G9
G10
G11
AA8/G12
AA7/G13
AA6/G14
AA5/G15
AA4/G16
AA3
AA2
AA1
AM35
AM34
AM33
AM17
AM18
AM19
AM20
AM21
AM22
AM23
AM24
AM25
AM26
AM27
AM28
AM29
AM30
AM31
AM32


DI
CL
CE
VDD
VSS
VFL
RES
TEST
OSCI
OSCO
CONTROL
SHIFT REGISTER
DC RAM
LATCH
CG ROM
CG RAM
LATCH
ANODE DRIVER
ADDRESS REGISTER
ADDRESS COUNTER
AD RAM
BLINKCYCLE REGISTER
BLINK GENERATOR
DISPLAY REGISTER
DISPLAY CONTROL
DUTYCYCLE REGISTER
DUTY GENERATOR
GRID REGISTER
GRID CONTROL
INSTRUCTION DECODER
CONTROL
DECODER
GRID DRIVER
OSC
DIVIDER
TIMING GENERATOR
AM1
AM2
AM35
AA1
AA2
AA3
AA4/G16
AA5/G15
AA6/G14
AA7/G13
AA8/G12
G11
G10
G2
G1

16. EXPLODED VIEW AND PARTS LIST

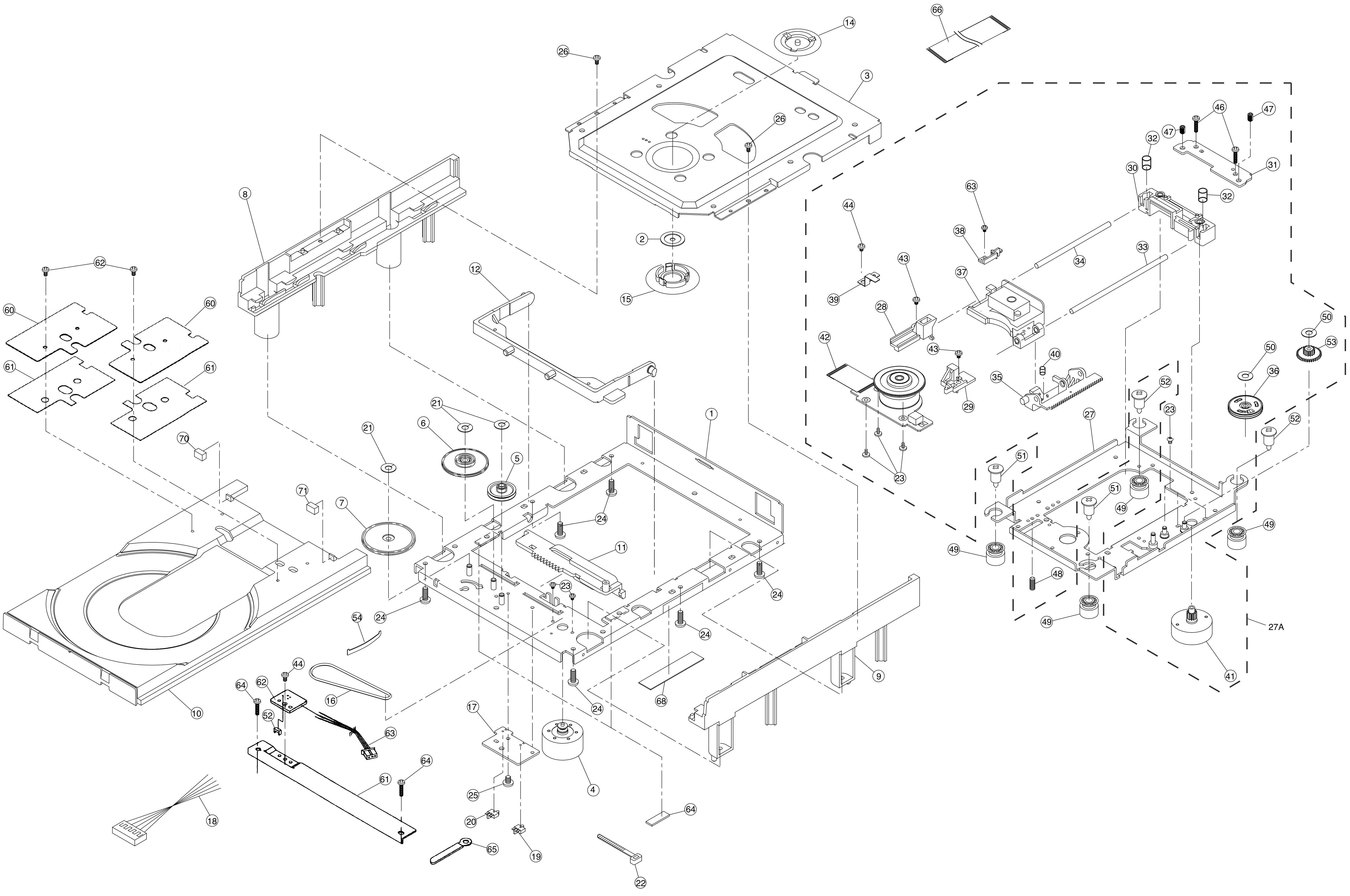

00M5405
Ø3 (M)
00M5405
Ø3 (M)
00M5128
Ø3x8 (M) x3
001D
00M5126
Ø3x8 (M) x4
Mecha Loader and
Mecha Traverse
003A
00M5128
Ø3x8 (M)
00M5127
Ø3x8 (M) x2
PA01
00M5128
Ø2. 6x8 (A)
x4
00M5192
Ø1. 7x9 (U)
x2
052G
051G
W001
/F/L/U
S
N
050B
051B
00M5128
Ø3x8 (M)
x4
J001
00M5127
Ø3x8 (M) x2
00M5128
Ø3x8 (M) x2
00M5127
Ø3x8 (M) x2
L027
PM01
00M5126
Ø3x8 (M)
00M5128
Ø3x8 (M) x4
045G
926G (x2)
00M5129
Ø3x8 (M)
P801
050G
00M5110
Ø3x6 (M)
00M5127
Ø3x8 (M) x11
L231
L031
00M5126
Ø3x8 (M)
PF01
00M5128
Ø3x8 (M) x4
L033
L032
032G (x2)
901G
030G
020G
PV01
00M5126
Ø3x8 (M) x2
00M5128
Ø2. 6x6 (A)
U : 00M5127
Ø3x8 (M)
/F/L
/N/S : 00M5128
Ø3x8 (M)
00M5128
Ø3x8 (M)
00M5128
Ø3x8 (M) x2
035B
P802
PT01
00M5127
Ø3x8 (M)
002B
PL01
070B
004B
(U only)
011B
(x2)
063B
045B (x3)
PH01
001B
005B
022B (x2)
00M5128
Ø3x8 (M)
x2
020B
007B
060B
010B
001G
021B
021G
00M5127
Ø3x8 (M) x3
012B
008B
003B (x3)
U : 00M5128
Ø3x8 (M)
/F/L
/N/S : 00M5127
Ø3x8 (M)
005G
061B
00M5127
Ø3x8 (M) x3
004B
(/F, /L, /N, /S only)
010G (Rear x2)
00M5128
Ø3x8 (M) x2
00M5128
Ø3x8 (M)
009G (Front x2)
00M5128
Ø3x8 (M)
x4
00M5126
Ø3x10 (M) x4

P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	PART NAME	DESCRIPTION
	003A		00M21AK304020	00M21AK304020	MECHANISM	MECHA LOADER AND MECHA TRAVERSE
	001B	/F1B	nsp	00M21AK248010	FRONT PANEL	FRONT PANEL DV9500 BL
	001B	/N1B	00M21AK248010	00M21AK248010	FRONT PANEL	FRONT PANEL DV9500 BL
	001B	/U1B	nsp	00M21AK248010	FRONT PANEL	FRONT PANEL DV9500 BL
	001B	/F1N	nsp	00M21AK248110	FRONT PANEL	FRONT PANEL DV9500 GL
	001B	/L1G	nsp	00M21AK248110	FRONT PANEL	FRONT PANEL DV9500 GL
	001B	/S1G	nsp	00M21AK248110	FRONT PANEL	FRONT PANEL DV9500 GL
	001B	/N1S	00M21AK248210	00M21AK248210	FRONT PANEL	FRONT PANEL DV9500 SL
	002B	/F1B	nsp	00M21AK105020	CHASSIS	FRONT CHASSIS BL
	002B	/N1B	00M21AK105020	00M21AK105020	CHASSIS	FRONT CHASSIS BL
	002B	/U1B	nsp	00M21AK105020	CHASSIS	FRONT CHASSIS BL
	002B	/F1N	nsp	00M21AK105120	CHASSIS	FRONT CHASSIS GL
	002B	/L1G	nsp	00M21AK105120	CHASSIS	FRONT CHASSIS GL
	002B	/S1G	nsp	00M21AK105120	CHASSIS	FRONT CHASSIS GL
	002B	/N1S	00M21AK105220	00M21AK105220	CHASSIS	FRONT CHASSIS SL
	005B		00M312J355010	00M312J355010	LENS	LENS STANDBY
	007B	/F1B	nsp	00M24AW251010	BADGE	BADGE MZ GL
	007B	/F1N	nsp	00M24AW251010	BADGE	BADGE MZ GL
	007B	/L1G	nsp	00M24AW251010	BADGE	BADGE MZ GL
	007B	/N1B	00M24AW251010	00M24AW251010	BADGE	BADGE MZ GL
	007B	/S1G	nsp	00M24AW251010	BADGE	BADGE MZ GL
	007B	/U1B	nsp	00M24AW251010	BADGE	BADGE MZ GL
	007B	/N1S	00M24AW251020	00M24AW251020	BADGE	BADGE MZ SL
	008B	/F1B	nsp	00M02AK251010	BADGE	BADGE SACD GL
	008B	/F1N	nsp	00M02AK251010	BADGE	BADGE SACD GL
	008B	/L1G	nsp	00M02AK251010	BADGE	BADGE SACD GL
	008B	/N1B	00M02AK251010	00M02AK251010	BADGE	BADGE SACD GL
	008B	/S1G	nsp	00M02AK251010	BADGE	BADGE SACD GL
	008B	/U1B	nsp	00M02AK251010	BADGE	BADGE SACD GL
	008B	/N1S	00M02AK251030	00M02AK251030	BADGE	BADGE SACD SL
	010B	/F1B	nsp	00M13AK270010	BUTTON	BUTTON FUNCTION BL
	010B	/N1B	00M13AK270010	00M13AK270010	BUTTON	BUTTON FUNCTION BL
	010B	/U1B	nsp	00M13AK270010	BUTTON	BUTTON FUNCTION BL
	010B	/F1N	nsp	00M13AK270110	BUTTON	BUTTON FUNCTION GL
	010B	/L1G	nsp	00M13AK270110	BUTTON	BUTTON FUNCTION GL
	010B	/S1G	nsp	00M13AK270110	BUTTON	BUTTON FUNCTION GL
	010B	/N1S	00M13AK270210	00M13AK270210	BUTTON	BUTTON FUNCTION SL
	011B	/F1B	nsp	00M21AK270010	BUTTON	BUTTON D.OFF/HP BL
	011B	/N1B	00M21AK270010	00M21AK270010	BUTTON	BUTTON D.OFF/HP BL
	011B	/U1B	nsp	00M21AK270010	BUTTON	BUTTON D.OFF/HP BL
	011B	/F1N	nsp	00M21AK270110	BUTTON	BUTTON D.OFF/HP GL
	011B	/L1G	nsp	00M21AK270110	BUTTON	BUTTON D.OFF/HP GL
	011B	/S1G	nsp	00M21AK270110	BUTTON	BUTTON D.OFF/HP GL
	011B	/N1S	00M21AK270210	00M21AK270210	BUTTON	BUTTON D.OFF/HP SL
	012B	/F1B	nsp	00M02AK270040	BUTTON	BUTTON POWER BL
	012B	/N1B	00M02AK270040	00M02AK270040	BUTTON	BUTTON POWER BL
	012B	/U1B	nsp	00M02AK270040	BUTTON	BUTTON POWER BL
	012B	/F1N	nsp	00M02AK270140	BUTTON	BUTTON POWER GL
	012B	/L1G	nsp	00M02AK270140	BUTTON	BUTTON POWER GL
	012B	/S1G	nsp	00M02AK270140	BUTTON	BUTTON POWER GL
	012B	/N1S	00M02AK270240	00M02AK270240	BUTTON	BUTTON POWER SL
	020B		00M21AK158010	00M21AK158010	WINDOW	WINDOW
	021B	/F1B	nsp	00M21AK063010	ESCUTCHEON	ESCUTCHEON WINDOW BL
	021B	/N1B	00M21AK063010	00M21AK063010	ESCUTCHEON	ESCUTCHEON WINDOW BL
	021B	/U1B	nsp	00M21AK063010	ESCUTCHEON	ESCUTCHEON WINDOW BL
	021B	/F1N	nsp	00M21AK063110	ESCUTCHEON	ESCUTCHEON WINDOW GL
	021B	/L1G	nsp	00M21AK063110	ESCUTCHEON	ESCUTCHEON WINDOW GL
	021B	/S1G	nsp	00M21AK063110	ESCUTCHEON	ESCUTCHEON WINDOW GL
	021B	/N1S	00M21AK063210	00M21AK063210	ESCUTCHEON	ESCUTCHEON WINDOW SL
	022B		00M21AK355010	00M21AK355010	LENS	LENS D.OFF/HP
	050B	/F1B	nsp	00M13AK063010	ESCUTCHEON	ESCUTCHEON TRAY BL
	050B	/N1B	00M13AK063010	00M13AK063010	ESCUTCHEON	ESCUTCHEON TRAY BL
	050B	/U1B	nsp	00M13AK063010	ESCUTCHEON	ESCUTCHEON TRAY BL
	050B	/F1N	nsp	00M13AK063110	ESCUTCHEON	ESCUTCHEON TRAY GL
	050B	/L1G	nsp	00M13AK063110	ESCUTCHEON	ESCUTCHEON TRAY GL
	050B	/S1G	nsp	00M13AK063110	ESCUTCHEON	ESCUTCHEON TRAY GL
	050B	/N1S	00M13AK063210	00M13AK063210	ESCUTCHEON	ESCUTCHEON TRAY SL

NOTE : “nsp” PARTS IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	PART NAME	DESCRIPTION
	051B	/F1B	nsp	00M392K063160	ESCUTCHEON	BADGE ESCUTCHEON GL
	051B	/F1N	nsp	00M392K063160	ESCUTCHEON	BADGE ESCUTCHEON GL
	051B	/L1G	nsp	00M392K063160	ESCUTCHEON	BADGE ESCUTCHEON GL
	051B	/N1B	00M392K063160	00M392K063160	ESCUTCHEON	BADGE ESCUTCHEON GL
	051B	/S1G	nsp	00M392K063160	ESCUTCHEON	BADGE ESCUTCHEON GL
	051B	/U1B	nsp	00M392K063160	ESCUTCHEON	BADGE ESCUTCHEON GL
	051B	/N1S	00M392K063260	00M392K063260	ESCUTCHEON	BADGE ESCUTCHEON SL
	061B	/F1B	nsp	00M284T154310	KNOB	KNOB HP JACK BL
	061B	/N1B	00M284T154310	00M284T154310	KNOB	KNOB HP JACK BL
	061B	/U1B	nsp	00M284T154310	KNOB	KNOB HP JACK BL
	061B	/F1N	nsp	00M284T154250	KNOB	KNOB HP JACK GL
	061B	/L1G	nsp	00M284T154250	KNOB	KNOB HP JACK GL
	061B	/S1G	nsp	00M284T154250	KNOB	KNOB HP JACK GL
	061B	/N1S	00M284T154350	00M284T154350	KNOB	KNOB HP JACK SL
	009G		00M183J057010	00M183J057010	LEG	LEG FRONT GL
	010G		00M183J057110	00M183J057110	LEG	LEG REAR GL
	926G		00M396B010030	00M396B010030	SCREW	SCR. R.PANEL + RS232C
	▲ J001		00MYJ04002550	00MYJ04002550	INLET	! AC INLET TYPE R-301
	JA15		00MYT02011290	00MYT02011290	TERMINAL	EW-2560T-LH-W FOR L-CH(FRONT1)
	JA16		00MYT02011290	00MYT02011290	TERMINAL	EW-2560T-LH-W FOR L-CH(FRONT2)
	JA35		00MYT02011280	00MYT02011280	TERMINAL	EW-2560T-LH-R FOR R-CH(FRONT1)
	JA36		00MYT02011280	00MYT02011280	TERMINAL	EW-2560T-LH-R FOR R-CH(FRONT2)
	JC15		00MYT02011300	00MYT02011300	TERMINAL	EW-2560T-LH-B FOR CENTER-CH
	JC35		00MYT02011300	00MYT02011300	TERMINAL	EW-2560T-LH-B FOR SW(LFE)-CH
	JS15		00MYT02011300	00MYT02011300	TERMINAL	EW-2560T-LH-B FOR SL-CH
	JS35		00MYT02011300	00MYT02011300	TERMINAL	EW-2560T-LH-B FOR SR-CH
	L031		00MFC50230020	00MFC50230020	FERRITE CORE	TFCR-23-11-14 FOR W801
	L032		00MFC50160050	00MFC50160050	FERRITE CORE	TFCR-16813
	L033		00MFC50160050	00MFC50160050	FERRITE CORE	TFCR-16813
	L231		00MFC90280010	00MFC90280010	FERRITE CORE	HF70SH28*2*10 FPC FERRITE CORE
	L965		00MFC50150020	00MFC50150020	FERRITE CORE	ZCA1518-0730 FERRITE TDK
	L970		00MFC50160030	00MFC50160030	FERRITE CORE	FERRITE CORE TFCK-16-8-13
	LM31		00MFC90400010	00MFC90400010	FERRITE CORE	SCC-40-12 FOR WM01/JM01
	W271		nsp	00MYU26150520	FPC	J271-JD01
	WK01		nsp	00MYU40070510	FPC	JK01-JW01
	WK02		nsp	00MYU15100520	FPC	JK02-JW02
	WM01		nsp	00MYU28070520	FPC	JM01-JV04
	WN01	/N1B	nsp	00MYU08070280	FPC	JN01-JE02
	WN01	/N1S	nsp	00MYU08070280	FPC	JN01-JE02
	WU01		nsp	00MYU15120520	FPC	JU01-JF01
PACKING						
	001T	/F1B	nsp	00M21AK851110	USER GUIDE	USER GUIDE DV9500(F)
	001T	/F1N	nsp	00M21AK851110	USER GUIDE	USER GUIDE DV9500(F)
	001T	/L1G	nsp	00M21AK851350	USER GUIDE	USER GUIDE DV9500(L,S)
	001T	/S1G	nsp	00M21AK851350	USER GUIDE	USER GUIDE DV9500(L,S)
	001T	/N1B	00M21AK851310	00M21AK851310	USER GUIDE	USER GUIDE DV9500(N)1/2
	001T	/N1S	00M21AK851310	00M21AK851310	USER GUIDE	USER GUIDE DV9500(N)1/2
	001T	/U1B	nsp	00M21AK851250	USER GUIDE	USER GUIDE DV9500(U)
	005T	/N1S	00M21AK851320	00M21AK851320	USER GUIDE	USER GUIDE DV9500(N)2/2
	005T	/N1B	00M21AK851320	00M21AK851320	USER GUIDE	USER GUIDE DV9500(N)2/2
	001Z		00MZK21AK0010	00MZK21AK0010	REMOTE CONTROLLER	REMOTE CONTROLLER RC8500DV
	▲ W001	/F1B	nsp	00MZC01802080	MAINS CORD	# MAINS CORD MITY 125V 12A
	▲ W001	/F1N	nsp	00MZC01802080	MAINS CORD	# MAINS CORD MITY 125V 12A
	▲ W001	/L1G	nsp	00MZC01807030	MAINS CORD	# MAINS CORD TAIWAN 10A 125V
	▲ W001	/N1B	00MZC01803080	00MZC01803080	MAINS CORD	# 2P MAINS CORD 10A 250V CLASS2
	▲ W001	/N1S	00MZC01803080	00MZC01803080	MAINS CORD	# 2P MAINS CORD 10A 250V CLASS2
	▲ W001	/S1G	nsp	00MZC01804100	MAINS CORD	# MAINS CORD AC 250V 10A FOR UK
	▲ W001	/U1B	nsp	00MZC01803100	MAINS CORD	# MAINS CORD UL/CSA 10A 125V
NOT STANDARD SPARE PART						
	001S		nsp	00M21AK801010	PACKING CASE	PACKING CASE DV9500
	002S		nsp	00M02AJ809010	CUSHION	CUSHION
	001D	/F1B	nsp	00M21AK257010	LID	TOP COVER BL
	001D	/N1B	nsp	00M21AK257010	LID	TOP COVER BL
	001D	/U1B	nsp	00M21AK257010	LID	TOP COVER BL
	001D	/L1G	nsp	00M21AK257110	LID	TOP COVER GL
	001D	/L1G	nsp	00M21AK257110	LID	TOP COVER GL
	001D	/S1G	nsp	00M21AK257110	LID	TOP COVER GL
	001D	/N1S	nsp	00M21AK257210	LID	TOP COVER SL

NOTE : “nsp” PARTS IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.



P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	PART NAME	DESCRIPTION	
	1		nsp	nsp	CHASSIS	MAIN CHASSIS ASSY	9KC 1A01 7
	2		90M13AK160210	90M13AK160210	BRAKET	CLAMPER BRACKET	9KA 7P08 5
	3		nsp	nsp	BRAKET	GUIDE CLAMP BRACKET	
	4		90M-MM001290R	90M-MM001290R	MOTOR	LOADING MOTOR ASSY	9KC 2A00 3
	5		90M13AK058230	90M13AK058230	GEAR	LOADING GEAR	9KC 2G02 9
	6		90M13AK058210	90M13AK058210	GEAR	LOADING GEAR 2ND	9KB 9G03 0
	7		90M13AK058220	90M13AK058220	GEAR	LOADING GEAR 3RD	9KB 9G03 1
	8		90M13AK105210	90M13AK105210	CHASSIS	SUB CHASSIS-L	9KA 2G41 7
	9		90M13AK105220	90M13AK105220	CHASSIS	SUB CHASSIS-R	9KA 2G41 8
	10		90M13AK163210	90M13AK163210	TRAY	TRAY-D4	9KA 2G778
	11		90M13AK054210	90M13AK054210	CAM	SLIDE-CAM	9KC 1G00 3
	12		90M13AK002210	90M13AK002210	ARM	TRAVERSE ARM	9KC 1G00 4
	14		90M13AK005210	90M13AK005210	CLAMPER	CLAMPER H	9KA 7G20 2
	15		90M13AK005220	90M13AK005220	CLAMPER	CLAMPER L	9KA 7G20 3
	16		90M13AK264210	90M13AK264210	BELT	LOADING BELT	9KB 9G01 5
	17		nsp	nsp	PCB ASSY	SWITCH P.W.B.	9KC 1P01 4
	18		nsp	nsp	CORD	5P PH WIRE	9KC 2G04 3
	19		90M-SP001260R	90M-SP001260R	SWITCH	SWITCH ESE22MH21	9KS 01W2 04
	20		90M-SP001270R	90M-SP001270R	SWITCH	SWITCH ESE22MH23	9KS 01W2 05
	21		90M13AK012210	90M13AK012210	WASHER	POLY.SLIT WASHER 2.6X6X0.25C	9KP 26C6 25
	22		nsp	nsp	CLAMPER	WIRE CLAMPER	445 8004 007
	23		nsp	nsp	SCREW	PRECISION SCREW 1.7X2.2 TYPE3	9KS 17N0 22
	24		nsp	nsp	SCREW	SCREW 2.6X6 CBTS(B)-Z	9KB 26BK 06
	25		nsp	nsp	SCREW	PRECISION SCREW 2X3(S) TYPE3	9KS 20TK 33
	26		nsp	nsp	SCREW	SCREW 2X6 CBTS(P)-Z	9KB 20PK 06
	27A		90M13AK304210	90M13AK304210	MECHANISM	TRAVERSE MECHA (FEED) ASSY	9KC 2A06 3A
	23		nsp	nsp	SCREW	PRECISION SCREW 1.7X2.2 TYPE3	
	27		nsp	nsp	CHASSIS	PU CHASSIS ASSY	
	28		nsp	nsp	HOLDER	SHAFT HOLDER L	
	29		nsp	nsp	HOLDER	SHAFT HOLDER R	
	30		nsp	nsp	BRAKET	SHAFT TILT BASE	
	31		nsp	nsp	RETAINER	SHAFT TILT PLATE	
	32		nsp	nsp	SPRING	TILT SPRING	
	33		nsp	nsp	SHAFT	MAIN SHAFT	
	34		nsp	nsp	SHAFT	SUB SHAFT	
	35		nsp	nsp	GEAR	PU RACK GEAR	
	37		nsp	nsp	MECHANISM	PICK UP HOP-1200R	
	38		nsp	nsp	SPRING	PU SPRING	
	39		nsp	nsp	SPRING	SHAFT SPRING	
	40		nsp	nsp	SPRING	RACK GEAR SPRING	
	42		nsp	nsp	MOTOR	T/T MOTOR ASSY	
	43		nsp	nsp	SCREW	SCREW 2.6X6 CBTS(S)-Z	
	44		nsp	nsp	SCREW	SCREW 2.6X4 CBTS(S)-Z	
	46		nsp	nsp	SCREW	SCREW 2.6X15 CFTS(S)-Z	
	47		nsp	nsp	SCREW	SCREW 3X4 BSS	
	48		nsp	nsp	SCREW	SCREW 3X8 BSS (A)	
	63		nsp	nsp	SCREW	PRECISION SCREW 1.7X5 TYPE3	
	23		nsp	nsp	SCREW	PRECISION SCREW 1.7X2.2 TYPE3	
	36		nsp	nsp	GEAR	FEED GEAR 2ND ASSY	
	41		nsp	nsp	MOTOR	FEED MOTOR ASSY	
	50		nsp	nsp	WASHER	POLY.SLIT WASHER 2.1X4X0.25C	
	53		nsp	nsp	GEAR	FEED GEAR 3RD	
	49		90M13AK130210	90M13AK130210	DAMPER	DAMPER-SI25-LB	9KA 2G643
	51		nsp	nsp	SCREW	SPECIAL SCREW (FRONT)	
	52		nsp	nsp	SCREW	SPECIAL SCREW (REAR)	
	54		90M13AK116210	90M13AK116210	LEAF SPRING	TRAY-SPRING-VXF	9KB 7P02 4
	60		90M13AK104210	90M13AK104210	RETAINER	PLATE-RE-2HPC	9KC 2P03 1
	61		90M13AK104220	90M13AK104220	RETAINER	WF-PLATE-RE-2HPC	9KC 2P03 2
	62		nsp	nsp	SCREW	PRECISION SCREW 2X4(P) TYPE1	9KS 20P1 04
	64		nsp	nsp	CUSHION	RUBBER CUSHION	9KC 1G04 2
	66		90M-YU001350R	90M-YU001350R	FFC	FFC-0.5-24 L=80	9KA 2P70 6
	68		nsp	nsp	TAPE	TAPE W10X45 (NITTO NO.156)	
	70		nsp	nsp	CUSHION	CUSHION L 6X3Xt4	9KC 2G07 6
	71		nsp	nsp	CUSHION	CUSHION R 6X3Xt2	9KC 2G07 7

NOTE : "nsp" PARTS IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

17. ELECTRICAL PARTS LIST

PARTS INFORMATION

RESISTORS

1) 00MGD05×××140, Carbon film fixed resistor, ±5% 1/4W
2) 00MGD05×××160, Carbon film fixed resistor, ±5% 1/6W
① —— Resistance value

Examples ;
① Resistance value

0.1 Ω 001	10 Ω 100	1 kΩ 102	100 kΩ 104
0.5 Ω 005	18 Ω 180	2.7 kΩ 272	680 kΩ 684
1 Ω 010	100 Ω 101	10 kΩ 103	1 MΩ 105
6.8 Ω 068	390 Ω 391	22 kΩ 223	4.7 MΩ 475

Note : Please distinguish 1/4W from 1/6W by the shape of parts used actually.

CAPACITORS

CERAMIC CAP.
3) 00MDD1××××370 Ceramic capacitor
Disc type
Temp.coeff.P350 ～N1000, 50V
② ③
③ —— Capacity value
② —— Tolerance

Examples ;
② Tolerance (Capacity deviation)
±0.25 pF 0
±0.5 pF 1
±5% 5

＊ Tolerance of COMMON PARTS handled here are as follows :
0.5 pF ～ 5 pF .... ±0.25 pF
6 pF ～ 10 pF .... ±0.5 pF
12 pF ～ 560 pF .... ±5%

③ Capacity value

0.5 pF 005	3 pF 030	100 pF 101
1 pF 010	10 pF 100	220 pF 221
1.5 pF 015	47 pF 470	560 pF 561

CERAMIC CAP.
4) 00MDK16×××300, High dielectric constant ceramic capacitor
Disc type
Temp.chara. 2B4, 50V
④ —— Capacity value

Examples ;
④ Capacity value

100 pF 101	1000 pF 102	10000 pF 103
470 pF 471	2200 pF 222	

ELECTROLY CAP. (╪)
5) 00MEA×××××× 10, Electrolytic capacitor
One-way lead type, Tolerance ±20%
⑤ ⑥
⑥ —— Working voltage
⑤ —— Capacity value

Examples ;
⑤ Capacity value

0.1 µF 104	4.7 µF 475	100 µF 107
0.33 µF 334	10 µF 106	330 µF 337
1 µF 105	22 µF 226	1100 µF 118
		2200 µF 228

⑥ Working voltage

6.3V 006	25V 025
10V 010	35V 035
16V 016	50V 050

FILM CAP. (╪)
6) 00MDF15×××350 → Plastic film capacitor
00MDF15×××310 → One-way type, Mylar ±5% 50V
00MDF16×××310 → Plastic film capacitor
One-way type, Mylar ±10% 50V
⑦ —— Capacity value

Examples ;
⑦ Capacity value

0.001 µF (1000 pF) 102	0.1 µF 104
0.0018 µF 182	0.56 µF 564
0.01 µF 103	1 µF 105
0.015 µF 153	

NOTE ON SAFETY FOR FUSIBLE RESISTOR :

The suppliers and their type numbers of fusible resistors are as follows;

1. KOA Corporation

Part No. (MJI)		Type No. (KOA)	Description
00MNH05×××140	→	RF25S××××ΩJ	(±5% 1/4W)
00MNH05×××120	→	RF50S××××ΩJ	(±5% 1/2W)
00MNH85×××110	→	RF73B2A××××ΩJ	(±5% 1/10W)
00MNH95×××140	→	RF73B2E××××ΩJ	(±5% 1/4W)

＊ Resistance value —— Resistance value (0.1 Ω – 10 kΩ)

2. Matsushita Electronic Components Co., Ltd

Part No. (MJI)		Type No. (MEC)	Description
00MNF05×××140 00MRF05×××140	→	ERD-2FCJ×××	(±5% 1/4W)
00MNF02×××140 00MRF02×××140	→	ERD-2FCG×××	(±2% 1/4W)

＊Resistance value —— ＊Resistance value

Examples ;
＊ Resistance value

0.1 Ω 001	10 Ω 100	1 kΩ 102	100 kΩ 104
0.5 Ω 005	18 Ω 180	2.7 kΩ 272	680 kΩ 684
1 Ω 010	100 Ω 101	10 kΩ 103	1 MΩ 105
6.8 Ω 068	390 Ω 391	22 kΩ 223	4.7 MΩ 475

ABBREVIATION AND MARKS

ANT.	:	ANTENNA	BATT.	:	BATTERY
CAP.	:	CAPACITOR	CER.	:	CERAMIC
CONN.	:	CONNECTING	DIG.	:	DIGITAL
HP	:	HEADPHONE	MIC.	:	MICROPHONE
µ-PRO	:	MICROPROCESSOR	REC.	:	RECORDING
RES.	:	RESISTOR	SPK	:	SPEAKER
SW	:	SWITCH	TRANSF.	:	TRANSFORMER
TRIM.	:	TRIMMING	TRS.	:	TRANSISTOR
VAR.	:	VARIABLE	X'TAL	:	CRYSTAL

NOTE ON FUSE :

Regarding to all parts of parts code **00MFS20**xxx**2**xx, replace only with Wickmann-Werke GmbH, Type 372 non glass type fuse.

NOTE ON SAFETY :

Symbol ⚠ Fire or electrical shock hazard. Only original parts should be used to replaced any part marked with symbol ⚠ . Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

安全上の注意：

⚠がついている部品は、安全上重要な部品です。必ず指定されている部品番号の部品を使用して下さい。

P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	PART NAME	DESCRIPTION
P801	⚠ C801		00MDF17104630	00MDF17104630	FILM CAP.	# ECOU2A/04ML 0.1 UF/250V
P801	⚠ C802		00MDF17104630	00MDF17104630	FILM CAP.	# ECOU2A/04ML 0.1 UF/250V
P801	⚠ C803	/F1B	nsp	00MDK17471520	CERAMIC CAP.	# DE0910 B 471K -KX 470PF 250V
P801	⚠ C803	/F1N	nsp	00MDK17471520	CERAMIC CAP.	# DE0910 B 471K -KX 470PF 250V
P801	⚠ C803	/L1G	nsp	00MDK17471520	CERAMIC CAP.	# DE0910 B 471K -KX 470PF 250V
P801	⚠ C803	/N1B	00MDK17221520	00MDK17221520	CERAMIC CAP.	# DE0910 B 221K -KX 220PF 250V
P801	⚠ C803	/N1S	00MDK17221520	00MDK17221520	CERAMIC CAP.	# DE0910 B 221K -KX 220PF 250V
P801	⚠ C803	/S1G	nsp	00MDK17221520	CERAMIC CAP.	# DE0910 B 221K -KX 220PF 250V
P801	⚠ C803	/U1B	nsp	00MDK17471520	CERAMIC CAP.	# DE0910 B 471K -KX 470PF 250V
P801	⚠ C804	/F1B	nsp	00MDK17471520	CERAMIC CAP.	# DE0910 B 471K -KX 470PF 250V
P801	⚠ C804	/F1N	nsp	00MDK17471520	CERAMIC CAP.	# DE0910 B 471K -KX 470PF 250V
P801	⚠ C804	/L1G	nsp	00MDK17471520	CERAMIC CAP.	# DE0910 B 471K -KX 470PF 250V
P801	⚠ C804	/N1B	00MDK17221520	00MDK17221520	CERAMIC CAP.	# DE0910 B 221K -KX 220PF 250V
P801	⚠ C804	/N1S	00MDK17221520	00MDK17221520	CERAMIC CAP.	# DE0910 B 221K -KX 220PF 250V
P801	⚠ C804	/S1G	nsp	00MDK17221520	CERAMIC CAP.	# DE0910 B 221K -KX 220PF 250V
P801	⚠ C804	/U1B	nsp	00MDK17471520	CERAMIC CAP.	# DE0910 B 471K -KX 470PF 250V
P801	⚠ C805	/F1B	nsp	00MEA227200P0	ELECT CAP.	! 220UF 200V (ELNA RJ4 SERIES)
P801	⚠ C805	/F1N	nsp	00MEA227200P0	ELECT CAP.	! 220UF 200V (ELNA RJ4 SERIES)
P801	⚠ C805	/L1G	nsp	00MEA227200P0	ELECT CAP.	! 220UF 200V (ELNA RJ4 SERIES)
P801	⚠ C805	/N1B	00MEA12740070	00MEA12740070	ELECT CAP.	! RE3-400V121MK9 120UF/400V
P801	⚠ C805	/N1S	00MEA12740070	00MEA12740070	ELECT CAP.	! RE3-400V121MK9 120UF/400V
P801	⚠ C805	/S1G	nsp	00MEA12740070	ELECT CAP.	! RE3-400V121MK9 120UF/400V
P801	⚠ C805	/U1B	nsp	00MEA227200P0	ELECT CAP.	! 220UF 200V (ELNA RJ4 SERIES)
P801	C806	/F1B	nsp	00MDK16151910	CERAMIC CAP.	DE0405-1B151K2K 150P 2KV SHORT
P801	C806	/F1N	nsp	00MDK16151910	CERAMIC CAP.	DE0405-1B151K2K 150P 2KV SHORT
P801	C806	/L1G	nsp	00MDK16151910	CERAMIC CAP.	DE0405-1B151K2K 150P 2KV SHORT
P801	C806	/N1B	nsp	00MDK16101910	CERAMIC CAP.	DEBB33D101K 100PF 2KV
P801	C806	/N1S	nsp	00MDK16101910	CERAMIC CAP.	DEBB33D101K 100PF 2KV
P801	C806	/S1G	nsp	00MDK16101910	CERAMIC CAP.	DEBB33D101K 100PF 2KV
P801	C806	/U1B	nsp	00MDK16151910	CERAMIC CAP.	DE0405-1B151K2K 150P 2KV SHORT
P801	C807		nsp	00MOA22605020	ELECT. CAP.	22 UF M 50V RA-2
P801	C808		00MDF15334350	00MDF15334350	FILM CAP.	0.33UF,J,T,50V
P801	C809		00MDF15224350	00MDF15224350	FILM CAP.	0.22UF,J,T,50V
P801	C810		00MDF15472350	00MDF15472350	FILM CAP.	0.0047UF,J,M,50V
P801	C811		00MDF15104350	00MDF15104350	FILM CAP.	0.1UF,J,N,50V
P801	⚠ C812		00MDK17221520	00MDK17221520	CERAMIC CAP.	! DE0910 B 221K -KX 220PF 250V
P801	C813		nsp	00MOA10510020	ELECT. CAP.	1 UF M 100V RA-2
P801	C814		nsp	00MOA47605020	ELECT. CAP.	47 UF M 50V RA-2
P801	C815		nsp	00MOA47605020	ELECT. CAP.	47 UF M 50V RA-2
P801	C816		nsp	00MOA22701020	ELECT. CAP.	220 UF M 10V RA-2
P801	C819		nsp	00MEA10801620	ELECT. CAP.	1000UF/ 16V
P801	C820		nsp	00MOA22701020	ELECT. CAP.	220 UF M 10V RA-2
P801	C821		nsp	00MEA10801620	ELECT. CAP.	1000UF/ 16V
P801	C822		nsp	00MOA47701020	ELECT. CAP.	470 UF M 10V RA-2
P801	C823		nsp	00MOA22701020	ELECT. CAP.	220 UF M 10V RA-2
P801	C824		nsp	00MOA47702520	ELECT. CAP.	470UF 25V M RA-2
P801	C825		nsp	00MOA22701620	ELECT. CAP.	220 UF M 16V RA-2
P801	C826		nsp	00MOA22701020	ELECT. CAP.	220 UF M 10V RA-2
P801	C829		nsp	00MOA22701620	ELECT. CAP.	220 UF M 16V RA-2
P801	C841		nsp	00MOA10606320	ELECT. CAP.	10 UF 63V RA-2
P801	⚠ C844	/F1B	nsp	00MDF77103500	FILM CAP.	# 0.01UF M 250V AC
P801	⚠ C844	/F1N	nsp	00MDF77103500	FILM CAP.	# 0.01UF M 250V AC
P801	⚠ C844	/L1G	nsp	00MDF77103500	FILM CAP.	# 0.01UF M 250V AC
P801	⚠ C844	/N1B	00MDK17472900	00MDK17472900	FILM CAP.	#DE1310E 472M-KH
P801	⚠ C844	/N1S	00MDK17472900	00MDK17472900	FILM CAP.	#DE1310E 472M-KH
P801	⚠ C844	/S1G	nsp	00MDK17472900	FILM CAP.	#DE1310E 472M-KH
P801	⚠ C844	/U1B	nsp	00MDF77103500	FILM CAP.	# 0.01UF M 250V AC
P801	C851		00MOB10803510	00MOB10803510	ELECT. CAP	35V 1000UF BLOCK
P801	C852		00MOB10803510	00MOB10803510	ELECT. CAP	35V 1000UF BLOCK
P801	C853		nsp	00MOA47602520	ELECT. CAP.	47 UF M 25V RA-2
P801	C854		nsp	00MOA47602520	ELECT. CAP.	47 UF M 25V RA-2
P801	C855	/F1B	nsp	00MOA22702550	ELECT. CAP.	220UF M 25 V ARA
P801	C855	/F1N	nsp	00MOA22702550	ELECT. CAP.	220UF M 25 V ARA
P801	C855	/L1G	nsp	00MOA22702550	ELECT. CAP.	220UF M 25 V ARA
P801	C855	/N1B	nsp	00MOA22701640	ELECT. CAP.	220UF 16V ARS
P801	C855	/N1S	nsp	00MOA22701640	ELECT. CAP.	220UF 16V ARS
P801	C855	/S1G	nsp	00MOA22701640	ELECT. CAP.	220UF 16V ARS

NOTE : “nsp” PARTS IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	PART NAME	DESCRIPTION
P801	C855	/U1B	nsp	00MOA22702550	ELECT. CAP.	220UF M 25 V ARA
P801	C856	/F1B	nsp	00MOA22702550	ELECT. CAP.	220UF M 25 V ARA
P801	C856	/F1N	nsp	00MOA22702550	ELECT. CAP.	220UF M 25 V ARA
P801	C856	/L1G	nsp	00MOA22702550	ELECT. CAP.	220UF M 25 V ARA
P801	C856	/N1B	nsp	00MOA22701640	ELECT. CAP.	220UF 16V ARS
P801	C856	/N1S	nsp	00MOA22701640	ELECT. CAP.	220UF 16V ARS
P801	C856	/S1G	nsp	00MOA22701640	ELECT. CAP.	220UF 16V ARS
P801	C856	/U1B	nsp	00MOA22702550	ELECT. CAP.	220UF M 25 V ARA
P801	C861		nsp	00MOA22801620	ELECT. CAP.	2200UF 16V
P801	C862		nsp	00MOA22701020	ELECT. CAP.	220 UF M 10V RA-2
P801	C863		nsp	00MOA10701020	ELECT. CAP.	100 UF M 10V RA-2
P801	C871		nsp	00MOA10802520	ELECT. CAP.	1000 UF M 25V RA-2
P801	C872		nsp	00MOA10405020	ELECT. CAP.	0.1 UF M 50V RA-2
P801	C873		nsp	00MOA10606320	ELECT. CAP.	10 UF M 63V RA-2
P801	⚠ D801		00MHD20031290	00MHD20031290	DIODE	! S1WB(A)60 30A 600V
P801	D802		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P801	D803		00MHD32201000	00MHD32201000	ZENER DIODE	22V ZENER EQUIVALENT
P801	⚠ D804		00MHD20049080	00MHD20049080	DIODE	! AG01 400V 0.7A
P801	D805		00MHD31801000	00MHD31801000	ZENER DIODE	18V ZENER EQUIVALENT
P801	D806		00MHD30911000	00MHD30911000	ZENER DIODE	9.1V ZENER EQUIVALENT
P801	⚠ D807		00MHD20049080	00MHD20049080	DIODE	! AG01 400V 0.7A
P801	D808		00MHD32001000	00MHD32001000	ZENER DIODE	20V ZENER EQUIVALENT
P801	D810		00MHD30911000	00MHD30911000	ZENER DIODE	9.1V ZENER EQUIVALENT
P801	⚠ D811		00MHD20050080	00MHD20050080	DIODE	! RK46(SBD)60V 3.5A
P801	⚠ D812		00MHD20050080	00MHD20050080	DIODE	! RK46(SBD)60V 3.5A
P801	⚠ D814		00MHD20050080	00MHD20050080	DIODE	! RK46(SBD)60V 3.5A
P801	⚠ D815		00MHD20050080	00MHD20050080	DIODE	! RK46(SBD)60V 3.5A
P801	⚠ D817		00MHD20053080	00MHD20053080	DIODE	! EK19 90V 1.5A
P801	D818		00MHD32001000	00MHD32001000	ZENER DIODE	20V ZENER EQUIVALENT
P801	D819		00MHD30911000	00MHD30911000	ZENER DIODE	9.1V ZENER EQUIVALENT
P801	D841		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P801	⚠ D845		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P801	⚠ D851		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P801	⚠ D852		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P801	⚠ D853		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P801	⚠ D854		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P801	D855		00MHD31001000	00MHD31001000	ZENER DIODE	10V ZENER EQUIVALENT
P801	D856		00MHD31001000	00MHD31001000	ZENER DIODE	10V ZENER EQUIVALENT
P801	D857		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P801	D858		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P801	⚠ D861		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P801	⚠ D862		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P801	⚠ D863		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P801	⚠ D864		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P801	⚠ D871		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P801	⚠ D872		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P801	D873		nsp	00MHD20055100	DIODE	SHOTTKY 11EQS10 1A 100V
P801	D875		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P801	⚠ F801		00MFS20250200	00MFS20250200	FUSE	# T2.5A/250V TR5 NO.19372 (TP)
P801	⚠ F802		00MFS20025200	00MFS20025200	FUSE	# T250MA/250V TR5 NO.19372(TP)
P801	⚠ F803		00MFS20315200	00MFS20315200	FUSE	# FUSE 3.15A 250V SEMKO VDE
P801	⚠ F851		00MFS20050200	00MFS20050200	FUSE	# T500MA/250V TR5 NO.19372(TP)
P801	⚠ F852		00MFS20050200	00MFS20050200	FUSE	# T500MA/250V TR5 NO.19372(TP)
P801	⚠ F853		00MFS20050200	00MFS20050200	FUSE	# T500MA/250V TR5 NO.19372(TP)
P801	⚠ L801		00MLC22260130	00MLC22260130	CHOKE COIL	# 22MH X2 LINE FILTER
P801	L803		00MLC14734500	00MLC14734500	CHOKE COIL	RCH-110 47UH 2.5A
P801	L804		00MFC90050130	00MFC90050130	FERRITE CORE	BL02RN2-R62T2 FERRITE BEAD
P801	⚠ L841		00MLY10060010	00MLY10060010	RELAY	# SDT-S-106LMR TV-5 DC6V 250MW
P801	⚠ Q801		00MHF22943000	00MHF22943000	F.E.T.	! 2SK2943 900V 3A
P801	Q802		00MHC10007130	00MHC10007130	IC	FA3647P PWM CONTROL IC
P801	⚠ Q803		00MHW10032320	00MHW10032320	PHOTO UNIT	! PC-123F2 PHOTO COUPLER
P801	Q804		00MHC33036590	00MHC33036590	IC	TL431CZ PROG.VOLTAGE REFERENCE
P801	⚠ Q806		00MHC10006080	00MHC10006080	IC	! SI-3050C +5V 1.5A WITH SW
P801	⚠ Q807		00MHC10006080	00MHC10006080	IC	! SI-3050C +5V 1.5A WITH SW
P801	⚠ Q808		00MHC3691208F	00MHC3691208F	IC	! SI-3120F +12V 1A WITH SW
P801	Q809		00MHT316272B0	00MHT316272B0	TRANSISTOR	2SC1627 O,Y 80V 300MA 600MW TO
P801	⚠ Q812		00MHC3890809F	00MHC3890809F	IC	! +8V 1A REGULATOR NJM7808FA

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P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	PART NAME	DESCRIPTION
P801	Q813		00MHT30001000	00MHT30001000	TRANSISTOR	C2458,C1740S,C3199,ETC.
P801	Q814		00MHT316272B0	00MHT316272B0	TRANSISTOR	2SC1627 O,Y 80V 300MA 600MW TO
P801	⚠ Q841		00MHT10001000	00MHT10001000	TRANSISTOR	! A1048,A933S,A1267,ETC.
P801	Q842		00MBA20001000	00MBA20001000	SEMICON.COMP	DTC114ES/UN4211 10K,10K
P801	⚠ Q853		00MHT41415100	00MHT41415100	TRANSISTOR	! 2SD1415A
P801	⚠ Q854		00MHT21020100	00MHT21020100	TRANSISTOR	! 2SB1020A
P801	⚠ Q861		00MHC3690521F	00MHC3690521F	IC	! BA05T 5V/1A
P801	⚠ Q862		00MHC36J3321F	00MHC36J3321F	IC	! BA033T
P801	Q871		00MHT30001000	00MHT30001000	TRANSISTOR	C2458,C1740S,C3199,ETC.
P801	Q872		00MHT30001000	00MHT30001000	TRANSISTOR	C2458,C1740S,C3199,ETC.
P801	Q874		00MHT10001000	00MHT10001000	TRANSISTOR	A1048,A933S,A1267,ETC.
P801	Q875		00MBA20004000	00MBA20004000	SEMICON.COMP	DTC114TS/UN4215 10K
P801	⚠ R801	/F1B	nsp	00MRC10225820	RESISTOR	! 2.2M OHM +- 10% 1/2W FOR UL
P801	⚠ R801	/F1N	nsp	00MRC10225820	RESISTOR	! 2.2M OHM +- 10% 1/2W FOR UL
P801	⚠ R801	/L1G	nsp	00MRC10225820	RESISTOR	! 2.2M OHM +- 10% 1/2W FOR UL
P801	⚠ R801	/N1B	00MRC05105010	00MRC05105010	RESISTOR	! 1M OHM +-5% 1W RCR60 L15
P801	⚠ R801	/N1S	00MRC05105010	00MRC05105010	RESISTOR	! 1M OHM +-5% 1W RCR60 L15
P801	⚠ R801	/S1G	nsp	00MRC05105010	RESISTOR	! 1M OHM +-5% 1W RCR60 L15
P801	⚠ R801	/U1B	nsp	00MRC10225820	RESISTOR	! 2.2M OHM +- 10% 1/2W FOR UL
P801	R802	/F1B	nsp	00MGD05224160	RESISTOR	220K OHM +- 5% 1/6W
P801	R802	/F1N	nsp	00MGD05224160	RESISTOR	220K OHM +- 5% 1/6W
P801	R802	/L1G	nsp	00MGD05224160	RESISTOR	220K OHM +- 5% 1/6W
P801	R802	/N1B	nsp	00MGD05334160	RESISTOR	330K OHM +- 5% 1/6W
P801	R802	/N1S	nsp	00MGD05334160	RESISTOR	330K OHM +- 5% 1/6W
P801	R802	/S1G	nsp	00MGD05334160	RESISTOR	330K OHM +- 5% 1/6W
P801	R802	/U1B	nsp	00MGD05224160	RESISTOR	220K OHM +- 5% 1/6W
P801	R803	/F1B	nsp	00MGD05224160	RESISTOR	220K OHM +- 5% 1/6W
P801	R803	/F1N	nsp	00MGD05224160	RESISTOR	220K OHM +- 5% 1/6W
P801	R803	/L1G	nsp	00MGD05224160	RESISTOR	220K OHM +- 5% 1/6W
P801	R803	/N1B	nsp	00MGD05334160	RESISTOR	330K OHM +- 5% 1/6W
P801	R803	/N1S	nsp	00MGD05334160	RESISTOR	330K OHM +- 5% 1/6W
P801	R803	/S1G	nsp	00MGD05334160	RESISTOR	330K OHM +- 5% 1/6W
P801	R803	/U1B	nsp	00MGD05224160	RESISTOR	220K OHM +- 5% 1/6W
P801	R804	/F1B	nsp	00MGD05224160	RESISTOR	220K OHM +- 5% 1/6W
P801	R804	/F1N	nsp	00MGD05224160	RESISTOR	220K OHM +- 5% 1/6W
P801	R804	/L1G	nsp	00MGD05224160	RESISTOR	220K OHM +- 5% 1/6W
P801	R804	/N1B	nsp	00MGD05334160	RESISTOR	330K OHM +- 5% 1/6W
P801	R804	/N1S	nsp	00MGD05334160	RESISTOR	330K OHM +- 5% 1/6W
P801	R804	/S1G	nsp	00MGD05334160	RESISTOR	330K OHM +- 5% 1/6W
P801	R804	/U1B	nsp	00MGD05224160	RESISTOR	220K OHM +- 5% 1/6W
P801	R805	/F1B	nsp	00MGD05224160	RESISTOR	220K OHM +- 5% 1/6W
P801	R805	/F1N	nsp	00MGD05224160	RESISTOR	220K OHM +- 5% 1/6W
P801	R805	/L1G	nsp	00MGD05224160	RESISTOR	220K OHM +- 5% 1/6W
P801	R805	/N1B	nsp	00MGD05334160	RESISTOR	330K OHM +- 5% 1/6W
P801	R805	/N1S	nsp	00MGD05334160	RESISTOR	330K OHM +- 5% 1/6W
P801	R805	/S1G	nsp	00MGD05334160	RESISTOR	330K OHM +- 5% 1/6W
P801	R805	/U1B	nsp	00MGD05224160	RESISTOR	220K OHM +- 5% 1/6W
P801	R806		nsp	00MGD05680160	RESISTOR	68 OHM +- 5% 1/6W
P801	R807		nsp	00MGD05103160	RESISTOR	10K OHM +- 5% 1/6W
P801	R808		nsp	00MGD05100160	RESISTOR	10 OHM +- 5% 1/6W
P801	R809		00MNK05470010	00MNK05470010	METAL RESISTOR	47 OHM +- 5% 1W
P801	R810		nsp	00MGD05124160	RESISTOR	120K OHM +- 5% 1/6W
P801	R811		00MNK05100010	00MNK05100010	METAL RESISTOR	10 OHM +- 5% 1W
P801	R812		00MNL05222020	00MNL05222020	METAL RESISTOR	0.22 OHM +- 5% 2W
P801	R813	/F1B	nsp	00MGD05334160	RESISTOR	330K OHM +- 5% 1/6W
P801	R813	/F1N	nsp	00MGD05334160	RESISTOR	330K OHM +- 5% 1/6W
P801	R813	/L1G	nsp	00MGD05334160	RESISTOR	330K OHM +- 5% 1/6W
P801	R813	/N1B	nsp	00MGD05274160	RESISTOR	270K OHM +- 5% 1/6W
P801	R813	/N1S	nsp	00MGD05274160	RESISTOR	270K OHM +- 5% 1/6W
P801	R813	/S1G	nsp	00MGD05274160	RESISTOR	270K OHM +- 5% 1/6W
P801	R813	/U1B	nsp	00MGD05334160	RESISTOR	330K OHM +- 5% 1/6W
P801	R814		nsp	00MGD05563160	RESISTOR	56K OHM +- 5% 1/6W
P801	R815		nsp	00MGD05101160	RESISTOR	100 OHM +- 5% 1/6W
P801	R816		nsp	00MGD05151160	RESISTOR	150 OHM +- 5% 1/6W
P801	R817		nsp	00MGD05221160	RESISTOR	220 OHM +- 5% 1/6W
P801	R818		nsp	00MGD05471160	RESISTOR	470 OHM +- 5% 1/6W
P801	R819		nsp	00MGD05102160	RESISTOR	1K OHM +- 5% 1/6W

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P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	PART NAME	DESCRIPTION
P801	R820		nsp	00MGD05332160	RESISTOR	3.3K OHM +- 5% 1/6W
P801	R825		nsp	00MGD05472160	RESISTOR	4.7K OHM +- 5% 1/6W
P801	R826		nsp	00MGD05681160	RESISTOR	680 OHM +- 5% 1/6W
P801	R827		nsp	00MGD05103160	RESISTOR	10K OHM +- 5% 1/6W
P801	R828		nsp	00MGD05472160	RESISTOR	4.7K OHM +- 5% 1/6W
P801	R829		nsp	00MGD05033160	RESISTOR	3.3 OHM +- 5% 1/6W
P801	R830		nsp	00MGD05681160	RESISTOR	680 OHM +- 5% 1/6W
P801	R831		nsp	00MGD05103160	RESISTOR	10K OHM +- 5% 1/6W
P801	R841		nsp	00MGD05473160	RESISTOR	47K OHM +- 5% 1/6W
P801	R842		nsp	00MGD05472160	RESISTOR	4.7K OHM +- 5% 1/6W
P801	R843		nsp	00MGD05223160	RESISTOR	22K OHM +- 5% 1/6W
P801	R851		nsp	00MGD05102160	RESISTOR	1K OHM +- 5% 1/6W
P801	R852		nsp	00MGD05102160	RESISTOR	1K OHM +- 5% 1/6W
P801	R871		nsp	00MGD05102160	RESISTOR	1K OHM +- 5% 1/6W
P801	R872		nsp	00MGD05123160	RESISTOR	12K OHM +- 5% 1/6W
P801	R873		nsp	00MGD05335160	RESISTOR	3.3M OHM +- 5% 1/6W
P801	R874		nsp	00MGD05473160	RESISTOR	47K OHM +- 5% 1/6W
P801	R875		nsp	00MGD05473160	RESISTOR	47K OHM +- 5% 1/6W
P801	R876		nsp	00MGD05103160	RESISTOR	10K OHM +- 5% 1/6W
P801	R877		nsp	00MGD05473160	RESISTOR	47K OHM +- 5% 1/6W
P801	R879		nsp	00MGD05332160	RESISTOR	3.3K OHM +- 5% 1/6W
P801	⚠ T801		00MTS12900080	00MTS12900080	TRANSF.	# SW TRANSF ER28S
P801	⚠ T851	/F1B	nsp	00MTS14159040	TRANSF.	# PE4124 AUDIO TRANSF. AC100V
P801	⚠ T851	/F1N	nsp	00MTS14159040	TRANSF.	# PE4124 AUDIO TRANSF. AC100V
P801	⚠ T851	/L1G	nsp	00MTS14159050	TRANSF.	# PE4124 AUDIO TRANSF. AC120V
P801	⚠ T851	/N1B	00MTS14159060	00MTS14159060	TRANSF.	# PE4124 AUDIO TRANSF. AC230V
P801	⚠ T851	/N1S	00MTS14159060	00MTS14159060	TRANSF.	# PE4124 AUDIO TRANSF. AC230V
P801	⚠ T851	/S1G	nsp	00MTS14159060	TRANSF.	# PE4124 AUDIO TRANSF. AC230V
P801	⚠ T851	/U1B	nsp	00MTS14159050	TRANSF.	# PE4124 AUDIO TRANSF. AC120V
P802	⚠ S801		00MSP01013800	00MSP01013800	PUSH SWITCH	# AC POWER SWITCH ESB92S17B
PA01	CA01		nsp	00MOA10701620	ELECT. CAP.	100 UF M 16V RA-2
PA01	CA03		00MOF55101560	00MOF55101560	FILM CAP	DAMG 100PF 630V
PA01	CA04		00MOF15102540	00MOF15102540	FILM CAP	1000PF J 100V APSV
PA01	CA05		00MOF15102540	00MOF15102540	FILM CAP	1000PF J 100V APSV
PA01	CA06		00MOF15221540	00MOF15221540	FILM CAP	APSV 221J,220PF(TP) 100V PP
PA01	CA08		00MOF15221540	00MOF15221540	FILM CAP	APSV 221J,220PF(TP) 100V PP
PA01	CA10		nsp	00MOA22701640	ELECT. CAP.	220UF 16V ARS
PA01	CA11		nsp	00MOA22701640	ELECT. CAP.	220UF 16V ARS
PA01	CA33		00MOF55101560	00MOF55101560	FILM CAP	DAMG 100PF 630V
PA01	CA34		00MOF15102540	00MOF15102540	FILM CAP	1000PF J 100V APSV
PA01	CA35		00MOF15102540	00MOF15102540	FILM CAP	1000PF J 100V APSV
PA01	CA36		00MOF15221540	00MOF15221540	FILM CAP	APSV 221J,220PF(TP) 100V PP
PA01	CA38		00MOF15221540	00MOF15221540	FILM CAP	APSV 221J,220PF(TP) 100V PP
PA01	CA40		nsp	00MOA22701640	ELECT. CAP.	220UF 16V ARS
PA01	CA41		nsp	00MOA22701640	ELECT. CAP.	220UF 16V ARS
PA01	CC03		00MOF55101560	00MOF55101560	FILM CAP	DAMG 100PF 630V
PA01	CC04		00MOF15102540	00MOF15102540	FILM CAP	1000PF J 100V APSV
PA01	CC05		00MOF15102540	00MOF15102540	FILM CAP	1000PF J 100V APSV
PA01	CC06		00MOF15221540	00MOF15221540	FILM CAP	APSV 221J,220PF(TP) 100V PP
PA01	CC08		00MOF15221540	00MOF15221540	FILM CAP	APSV 221J,220PF(TP) 100V PP
PA01	CC10		nsp	00MOA22701640	ELECT. CAP.	220UF 16V ARS
PA01	CC11		nsp	00MOA22701640	ELECT. CAP.	220UF 16V ARS
PA01	CC33		00MOF55101560	00MOF55101560	FILM CAP	DAMG 100PF 630V
PA01	CC34		00MOF15102540	00MOF15102540	FILM CAP	1000PF J 100V APSV
PA01	CC35		00MOF15102540	00MOF15102540	FILM CAP	1000PF J 100V APSV
PA01	CC36		00MOF15221540	00MOF15221540	FILM CAP	APSV 221J,220PF(TP) 100V PP
PA01	CC38		00MOF15221540	00MOF15221540	FILM CAP	APSV 221J,220PF(TP) 100V PP
PA01	CC40		nsp	00MOA22701640	ELECT. CAP.	220UF 16V ARS
PA01	CC41		nsp	00MOA22701640	ELECT. CAP.	220UF 16V ARS
PA01	CD01	/F1B	nsp	00MOA22701650	ELECT. CAP.	220UF/16V ARA CERAFINE TAPING
PA01	CD01	/F1N	nsp	00MOA22701650	ELECT. CAP.	220UF/16V ARA CERAFINE TAPING
PA01	CD01	/L1G	nsp	00MOA22701650	ELECT. CAP.	220UF/16V ARA CERAFINE TAPING
PA01	CD01	/N1B	nsp	00MOA22701640	ELECT. CAP.	220UF 16V ARS
PA01	CD01	/N1S	nsp	00MOA22701640	ELECT. CAP.	220UF 16V ARS
PA01	CD01	/S1G	nsp	00MOA22701640	ELECT. CAP.	220UF 16V ARS
PA01	CD01	/U1B	nsp	00MOA22701650	ELECT. CAP.	220UF/16V ARA CERAFINE TAPING
PA01	CD02		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA

NOTE : “nsp” PARTS IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	PART NAME	DESCRIPTION
PA01	CD03		nsp	00MOA33602520	ELECT. CAP.	33 UF M 25V RA-2
PA01	CD04		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PA01	CD05		nsp	00MOA33602520	ELECT. CAP.	33 UF M 25V RA-2
PA01	CD06		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PA01	CD07	/F1B	nsp	00MOA10701050	ELECT. CAP.	100UF 10V ARA
PA01	CD07	/F1N	nsp	00MOA10701050	ELECT. CAP.	100UF 10V ARA
PA01	CD07	/L1G	nsp	00MOA10701050	ELECT. CAP.	100UF 10V ARA
PA01	CD07	/N1B	nsp	00MOA10702540	ELECT. CAP.	100UF 25V ARS
PA01	CD07	/N1S	nsp	00MOA10702540	ELECT. CAP.	100UF 25V ARS
PA01	CD07	/S1G	nsp	00MOA10702540	ELECT. CAP.	100UF 25V ARS
PA01	CD07	/U1B	nsp	00MOA10701050	ELECT. CAP.	100UF 10V ARA
PA01	CD08		nsp	00MDK98105200	CERAMIC CAP.	1UF 10V F
PA01	CD09		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PA01	CD10		nsp	00MOA33505020	ELECT. CAP.	3.3UF M 50V RA-2
PA01	CD21	/F1B	nsp	00MOA22701650	ELECT. CAP.	220UF/16V ARA CERAFINE TAPING
PA01	CD21	/F1N	nsp	00MOA22701650	ELECT. CAP.	220UF/16V ARA CERAFINE TAPING
PA01	CD21	/L1G	nsp	00MOA22701650	ELECT. CAP.	220UF/16V ARA CERAFINE TAPING
PA01	CD21	/N1B	nsp	00MOA22701640	ELECT. CAP.	220UF 16V ARS
PA01	CD21	/N1S	nsp	00MOA22701640	ELECT. CAP.	220UF 16V ARS
PA01	CD21	/S1G	nsp	00MOA22701640	ELECT. CAP.	220UF 16V ARS
PA01	CD21	/U1B	nsp	00MOA22701650	ELECT. CAP.	220UF/16V ARA CERAFINE TAPING
PA01	CD22		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PA01	CD23		nsp	00MOA33602520	ELECT. CAP.	33 UF M 25V RA-2
PA01	CD24		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PA01	CD25		nsp	00MOA33602520	ELECT. CAP.	33 UF M 25V RA-2
PA01	CD26		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PA01	CD27	/F1B	nsp	00MOA10701050	ELECT. CAP.	100UF 10V ARA
PA01	CD27	/F1N	nsp	00MOA10701050	ELECT. CAP.	100UF 10V ARA
PA01	CD27	/L1G	nsp	00MOA10701050	ELECT. CAP.	100UF 10V ARA
PA01	CD27	/N1B	nsp	00MOA10702540	ELECT. CAP.	100UF 25V ARS
PA01	CD27	/N1S	nsp	00MOA10702540	ELECT. CAP.	100UF 25V ARS
PA01	CD27	/S1G	nsp	00MOA10702540	ELECT. CAP.	100UF 25V ARS
PA01	CD27	/U1B	nsp	00MOA10701050	ELECT. CAP.	100UF 10V ARA
PA01	CD28		nsp	00MDK98105200	CERAMIC CAP.	1UF 10V F
PA01	CD29		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PA01	CD30		nsp	00MOA33505020	ELECT. CAP.	3.3UF M 50V RA-2
PA01	CD41	/F1B	nsp	00MOA22701650	ELECT. CAP.	220UF/16V ARA CERAFINE TAPING
PA01	CD41	/F1N	nsp	00MOA22701650	ELECT. CAP.	220UF/16V ARA CERAFINE TAPING
PA01	CD41	/L1G	nsp	00MOA22701650	ELECT. CAP.	220UF/16V ARA CERAFINE TAPING
PA01	CD41	/N1B	nsp	00MOA22701640	ELECT. CAP.	220UF 16V ARS
PA01	CD41	/N1S	nsp	00MOA22701640	ELECT. CAP.	220UF 16V ARS
PA01	CD41	/S1G	nsp	00MOA22701640	ELECT. CAP.	220UF 16V ARS
PA01	CD41	/U1B	nsp	00MOA22701650	ELECT. CAP.	220UF/16V ARA CERAFINE TAPING
PA01	CD42		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PA01	CD43		nsp	00MOA33602520	ELECT. CAP.	33 UF M 25V RA-2
PA01	CD44		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PA01	CD45		nsp	00MOA33602520	ELECT. CAP.	33 UF M 25V RA-2
PA01	CD46		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PA01	CD47	/F1B	nsp	00MOA10701050	ELECT. CAP.	100UF 10V ARA
PA01	CD47	/F1N	nsp	00MOA10701050	ELECT. CAP.	100UF 10V ARA
PA01	CD47	/L1G	nsp	00MOA10701050	ELECT. CAP.	100UF 10V ARA
PA01	CD47	/N1B	nsp	00MOA10702540	ELECT. CAP.	100UF 25V ARS
PA01	CD47	/N1S	nsp	00MOA10702540	ELECT. CAP.	100UF 25V ARS
PA01	CD47	/S1G	nsp	00MOA10702540	ELECT. CAP.	100UF 25V ARS
PA01	CD47	/U1B	nsp	00MOA10701050	ELECT. CAP.	100UF 10V ARA
PA01	CD48		nsp	00MDK98105200	CERAMIC CAP.	1UF 10V F
PA01	CD49		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PA01	CD50		nsp	00MOA33505020	ELECT. CAP.	3.3UF M 50V RA-2
PA01	CD61		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PA01	CH01		nsp	00MDD95330300	CERAMIC CAP.	33 PF +- 5 % CG 50V
PA01	CH11		nsp	00MDD95330300	CERAMIC CAP.	33 PF +- 5 % CG 50V
PA01	CH21		nsp	00MDD95330300	CERAMIC CAP.	33 PF +- 5 % CG 50V
PA01	CH31		nsp	00MDD95330300	CERAMIC CAP.	33 PF +- 5 % CG 50V
PA01	CH41		nsp	00MDD95330300	CERAMIC CAP.	33 PF +- 5 % CG 50V
PA01	CH51		nsp	00MDD95330300	CERAMIC CAP.	33 PF +- 5 % CG 50V
PA01	CS03		00MOF55101560	00MOF55101560	FILM CAP	DAMG 100PF 630V
PA01	CS04		00MOF15102540	00MOF15102540	FILM CAP	1000PF J 100V APSV

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P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	PART NAME	DESCRIPTION
PA01	CS05		00MOF15102540	00MOF15102540	FILM CAP	1000PF J 100V APSV
PA01	CS06		00MOF15221540	00MOF15221540	FILM CAP	APSV 221J,220PF(TP) 100V PP
PA01	CS08		00MOF15221540	00MOF15221540	FILM CAP	APSV 221J,220PF(TP) 100V PP
PA01	CS10		nsp	00MOA22701640	ELECT. CAP.	220UF 16V ARS
PA01	CS11		nsp	00MOA22701640	ELECT. CAP.	220UF 16V ARS
PA01	CS33		00MOF55101560	00MOF55101560	FILM CAP	DAMG 100PF 630V
PA01	CS34		00MOF15102540	00MOF15102540	FILM CAP	1000PF J 100V APSV
PA01	CS35		00MOF15102540	00MOF15102540	FILM CAP	1000PF J 100V APSV
PA01	CS36		00MOF15221540	00MOF15221540	FILM CAP	APSV 221J,220PF(TP) 100V PP
PA01	CS38		00MOF15221540	00MOF15221540	FILM CAP	APSV 221J,220PF(TP) 100V PP
PA01	CS40		nsp	00MOA22701640	ELECT. CAP.	220UF 16V ARS
PA01	CS41		nsp	00MOA22701640	ELECT. CAP.	220UF 16V ARS
PA01	DA01		00MHZ21005000	00MHZ21005000	CHIP DIODE	1SS301,DAN202U UMT TYPE
PA01	DA21		00MHZ21005000	00MHZ21005000	CHIP DIODE	1SS301,DAN202U UMT TYPE
PA01	DA22		00MHZ21005000	00MHZ21005000	CHIP DIODE	1SS301,DAN202U UMT TYPE
PA01	DA51		00MHZ21005000	00MHZ21005000	CHIP DIODE	1SS301,DAN202U UMT TYPE
PA01	DC21		00MHZ21005000	00MHZ21005000	CHIP DIODE	1SS301,DAN202U UMT TYPE
PA01	DC51		00MHZ21005000	00MHZ21005000	CHIP DIODE	1SS301,DAN202U UMT TYPE
PA01	DH01		00MHZ20007210	00MHZ20007210	CHIP DIODE	IMN10 DIODE ARRAY
PA01	DH02		00MHZ20018050	00MHZ20018050	CHIP DIODE	1SS302 (TOSHIBA)
PA01	DH11		00MHZ20007210	00MHZ20007210	CHIP DIODE	IMN10 DIODE ARRAY
PA01	DH12		00MHZ20018050	00MHZ20018050	CHIP DIODE	1SS302 (TOSHIBA)
PA01	DH21		00MHZ20007210	00MHZ20007210	CHIP DIODE	IMN10 DIODE ARRAY
PA01	DH22		00MHZ20018050	00MHZ20018050	CHIP DIODE	1SS302 (TOSHIBA)
PA01	DH31		00MHZ20007210	00MHZ20007210	CHIP DIODE	IMN10 DIODE ARRAY
PA01	DH32		00MHZ20018050	00MHZ20018050	CHIP DIODE	1SS302 (TOSHIBA)
PA01	DH41		00MHZ20007210	00MHZ20007210	CHIP DIODE	IMN10 DIODE ARRAY
PA01	DH42		00MHZ20018050	00MHZ20018050	CHIP DIODE	1SS302 (TOSHIBA)
PA01	DH51		00MHZ20007210	00MHZ20007210	CHIP DIODE	IMN10 DIODE ARRAY
PA01	DH52		00MHZ20018050	00MHZ20018050	CHIP DIODE	1SS302 (TOSHIBA)
PA01	DS21		00MHZ21005000	00MHZ21005000	CHIP DIODE	1SS301,DAN202U UMT TYPE
PA01	DS51		00MHZ21005000	00MHZ21005000	CHIP DIODE	1SS301,DAN202U UMT TYPE
PA01	LA01		00MFC90020110	00MFC90020110	FERRITE CORE	BLM11B601S CHIP FERRITE
PA01	QA01		00MHF201701H0	00MHF201701H0	F.E.T.	2SK170 V LANK TOSHIBA
PA01	QA02		00MHF100741H0	00MHF100741H0	F.E.T.	2SJ74 V LANK TOSHIBA
PA01	QA04		00MBA20016050	00MBA20016050	SEMICON.COMP	HN1C03F(B)(NPNX2(MUTING))
PA01	QA06	/N1B	00MHX342132A0	00MHX342132A0	CHIP TR.	2SC4213
PA01	QA06	/N1S	00MHX342132A0	00MHX342132A0	CHIP TR.	2SC4213
PA01	QA07		00MBA20035210	00MBA20035210	SEMICON.COMP	DTC114EU
PA01	QA08		00MBA20035210	00MBA20035210	SEMICON.COMP	DTC114EU
PA01	QA09		00MHX100012A0	00MHX100012A0	CHIP TR.	2SA1586 (Y,GR) 2SA1576A (Q,R)
PA01	QA11		00MBA20035210	00MBA20035210	SEMICON.COMP	DTC114EU
PA01	QA12		00MHX100012A0	00MHX100012A0	CHIP TR.	2SA1586 (Y,GR) 2SA1576A (Q,R)
PA01	QA13		00MBA20016050	00MBA20016050	SEMICON.COMP	HN1C03F(B)(NPNX2(MUTING))
PA01	QA31		00MHF201701H0	00MHF201701H0	F.E.T.	2SK170 V LANK TOSHIBA
PA01	QA32		00MHF100741H0	00MHF100741H0	F.E.T.	2SJ74 V LANK TOSHIBA
PA01	QA34		00MBA20016050	00MBA20016050	SEMICON.COMP	HN1C03F(B)(NPNX2(MUTING))
PA01	QA36	/N1B	00MHX342132A0	00MHX342132A0	CHIP TR.	2SC4213
PA01	QA36	/N1S	00MHX342132A0	00MHX342132A0	CHIP TR.	2SC4213
PA01	QA37		00MBA20035210	00MBA20035210	SEMICON.COMP	DTC114EU
PA01	QA38		00MBA20035210	00MBA20035210	SEMICON.COMP	DTC114EU
PA01	QA39		00MHX100012A0	00MHX100012A0	CHIP TR.	2SA1586 (Y,GR) 2SA1576A (Q,R)
PA01	QA73		00MBA20016050	00MBA20016050	SEMICON.COMP	HN1C03F(B)(NPNX2(MUTING))
PA01	QC01		00MHF201701H0	00MHF201701H0	F.E.T.	2SK170 V LANK TOSHIBA
PA01	QC02		00MHF100741H0	00MHF100741H0	F.E.T.	2SJ74 V LANK TOSHIBA
PA01	QC04		00MBA20016050	00MBA20016050	SEMICON.COMP	HN1C03F(B)(NPNX2(MUTING))
PA01	QC08		00MBA20035210	00MBA20035210	SEMICON.COMP	DTC114EU
PA01	QC09		00MHX100012A0	00MHX100012A0	CHIP TR.	2SA1586 (Y,GR) 2SA1576A (Q,R)
PA01	QC31		00MHF201701H0	00MHF201701H0	F.E.T.	2SK170 V LANK TOSHIBA
PA01	QC32		00MHF100741H0	00MHF100741H0	F.E.T.	2SJ74 V LANK TOSHIBA
PA01	QC34		00MBA20016050	00MBA20016050	SEMICON.COMP	HN1C03F(B)(NPNX2(MUTING))
PA01	QC38		00MBA20035210	00MBA20035210	SEMICON.COMP	DTC114EU
PA01	QC39		00MHX100012A0	00MHX100012A0	CHIP TR.	2SA1586 (Y,GR) 2SA1576A (Q,R)
PA01	QD01		00MHC10020880	00MHC10020880	IC	CS4398 192KHZ DAC
PA01	QD21		00MHC10020880	00MHC10020880	IC	CS4398 192KHZ DAC
PA01	QD41		00MHC10020880	00MHC10020880	IC	CS4398 192KHZ DAC
PA01	QD61		00MHC10440050	00MHC10440050	IC	TC7SH08FU 932211931682

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P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	PART NAME	DESCRIPTION
PA01	QH01		00MHF203691B0	00MHF203691B0	F.E.T.	2SK369 BL VGDS-40V PD0.4W
PA01	QH02		00MHF203691B0	00MHF203691B0	F.E.T.	2SK369 BL VGDS-40V PD0.4W
PA01	QH03		00MHX328731B0	00MHX328731B0	CHIP TR.	2SC2873 (Y)
PA01	QH04		00MHX113121B0	00MHX113121B0	CHIP TR.	2SA1312 (B)
PA01	QH05		00MHX113121B0	00MHX113121B0	CHIP TR.	2SA1312 (B)
PA01	QH06		00MHX333241B0	00MHX333241B0	CHIP TR.	2SC3324 (B)
PA01	QH11		00MHF203691B0	00MHF203691B0	F.E.T.	2SK369 BL VGDS-40V PD0.4W
PA01	QH12		00MHF203691B0	00MHF203691B0	F.E.T.	2SK369 BL VGDS-40V PD0.4W
PA01	QH13		00MHX328731B0	00MHX328731B0	CHIP TR.	2SC2873 (Y)
PA01	QH14		00MHX113121B0	00MHX113121B0	CHIP TR.	2SA1312 (B)
PA01	QH15		00MHX113121B0	00MHX113121B0	CHIP TR.	2SA1312 (B)
PA01	QH16		00MHX333241B0	00MHX333241B0	CHIP TR.	2SC3324 (B)
PA01	QH21		00MHF203691B0	00MHF203691B0	F.E.T.	2SK369 BL VGDS-40V PD0.4W
PA01	QH22		00MHF203691B0	00MHF203691B0	F.E.T.	2SK369 BL VGDS-40V PD0.4W
PA01	QH23		00MHX328731B0	00MHX328731B0	CHIP TR.	2SC2873 (Y)
PA01	QH24		00MHX113121B0	00MHX113121B0	CHIP TR.	2SA1312 (B)
PA01	QH25		00MHX113121B0	00MHX113121B0	CHIP TR.	2SA1312 (B)
PA01	QH26		00MHX333241B0	00MHX333241B0	CHIP TR.	2SC3324 (B)
PA01	QH31		00MHF203691B0	00MHF203691B0	F.E.T.	2SK369 BL VGDS-40V PD0.4W
PA01	QH32		00MHF203691B0	00MHF203691B0	F.E.T.	2SK369 BL VGDS-40V PD0.4W
PA01	QH33		00MHX328731B0	00MHX328731B0	CHIP TR.	2SC2873 (Y)
PA01	QH34		00MHX113121B0	00MHX113121B0	CHIP TR.	2SA1312 (B)
PA01	QH35		00MHX113121B0	00MHX113121B0	CHIP TR.	2SA1312 (B)
PA01	QH36		00MHX333241B0	00MHX333241B0	CHIP TR.	2SC3324 (B)
PA01	QH41		00MHF203691B0	00MHF203691B0	F.E.T.	2SK369 BL VGDS-40V PD0.4W
PA01	QH42		00MHF203691B0	00MHF203691B0	F.E.T.	2SK369 BL VGDS-40V PD0.4W
PA01	QH43		00MHX328731B0	00MHX328731B0	CHIP TR.	2SC2873 (Y)
PA01	QH44		00MHX113121B0	00MHX113121B0	CHIP TR.	2SA1312 (B)
PA01	QH45		00MHX113121B0	00MHX113121B0	CHIP TR.	2SA1312 (B)
PA01	QH46		00MHX333241B0	00MHX333241B0	CHIP TR.	2SC3324 (B)
PA01	QH51		00MHF203691B0	00MHF203691B0	F.E.T.	2SK369 BL VGDS-40V PD0.4W
PA01	QH52		00MHF203691B0	00MHF203691B0	F.E.T.	2SK369 BL VGDS-40V PD0.4W
PA01	QH53		00MHX328731B0	00MHX328731B0	CHIP TR.	2SC2873 (Y)
PA01	QH54		00MHX113121B0	00MHX113121B0	CHIP TR.	2SA1312 (B)
PA01	QH55		00MHX113121B0	00MHX113121B0	CHIP TR.	2SA1312 (B)
PA01	QH56		00MHX333241B0	00MHX333241B0	CHIP TR.	2SC3324 (B)
PA01	QS01		00MHF201701H0	00MHF201701H0	F.E.T.	2SK170 V LANK TOSHIBA
PA01	QS02		00MHF100741H0	00MHF100741H0	F.E.T.	2SJ74 V LANK TOSHIBA
PA01	QS04		00MBA20016050	00MBA20016050	SEMICON.COMP	HN1C03F(B)(NPNX2(MUTING))
PA01	QS08		00MBA20035210	00MBA20035210	SEMICON.COMP	DTC114EU
PA01	QS09		00MHX100012A0	00MHX100012A0	CHIP TR.	2SA1586 (Y,GR) 2SA1576A (Q,R)
PA01	QS31		00MHF201701H0	00MHF201701H0	F.E.T.	2SK170 V LANK TOSHIBA
PA01	QS32		00MHF100741H0	00MHF100741H0	F.E.T.	2SJ74 V LANK TOSHIBA
PA01	QS34		00MBA20016050	00MBA20016050	SEMICON.COMP	HN1C03F(B)(NPNX2(MUTING))
PA01	QS38		00MBA20035210	00MBA20035210	SEMICON.COMP	DTC114EU
PA01	QS39		00MHX100012A0	00MHX100012A0	CHIP TR.	2SA1586 (Y,GR) 2SA1576A (Q,R)
PA01	RA01		00MNI05332110	00MNI05332110	CHIP RESISTOR	3.3K OHM +- 5% 1/10W
PA01	RA02		00MNI05332110	00MNI05332110	CHIP RESISTOR	3.3K OHM +- 5% 1/10W
PA01	RA03		00MNI05222110	00MNI05222110	CHIP RESISTOR	2.2K OHM +- 5% 1/10W
PA01	RA04		00MNI05222110	00MNI05222110	CHIP RESISTOR	2.2K OHM +- 5% 1/10W
PA01	RA05		00MNI05222110	00MNI05222110	CHIP RESISTOR	2.2K OHM +- 5% 1/10W
PA01	RA06		00MNI05222110	00MNI05222110	CHIP RESISTOR	2.2K OHM +- 5% 1/10W
PA01	RA07		00MNI05123110	00MNI05123110	CHIP RESISTOR	12K OHM +- 5% 1/10W
PA01	RA08		00MNI05153110	00MNI05153110	CHIP RESISTOR	15K OHM +- 5% 1/10W
PA01	RA09		00MNI05123110	00MNI05123110	CHIP RESISTOR	12K OHM +- 5% 1/10W
PA01	RA10		00MNI05153110	00MNI05153110	CHIP RESISTOR	15K OHM +- 5% 1/10W
PA01	RA13		00MNI05473110	00MNI05473110	CHIP RESISTOR	47K OHM +- 5% 1/10W
PA01	RA14		00MNI05680110	00MNI05680110	CHIP RESISTOR	68 OHM +- 5% 1/10W
PA01	RA15		00MNI05680110	00MNI05680110	CHIP RESISTOR	68 OHM +- 5% 1/10W
PA01	RA16		00MNI05104110	00MNI05104110	CHIP RESISTOR	100K OHM +- 5% 1/10W
PA01	RA17		nsp	00MNN05224610	CHIP RESISTOR	220K OHM +- 5% 1/16W
PA01	RA18		nsp	00MNN05222610	CHIP RESISTOR	2.2K OHM +- 5% 1/16W
PA01	RA19		nsp	00MNN05222610	CHIP RESISTOR	2.2K OHM +- 5% 1/16W
PA01	RA20		00MNI05680110	00MNI05680110	CHIP RESISTOR	68 OHM +- 5% 1/10W
PA01	RA21	/N1B	nsp	00MNN05221610	CHIP RESISTOR	220 OHM +- 5% 1/16W
PA01	RA21	/N1S	nsp	00MNN05221610	CHIP RESISTOR	220 OHM +- 5% 1/16W
PA01	RA22	/N1B	nsp	00MNN05473610	CHIP RESISTOR	47K OHM +- 5% 1/16W

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P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	PART NAME	DESCRIPTION
PA01	RA22	/N1S	nsp	00MNN05473610	CHIP RESISTOR	47K OHM +- 5% 1/16W
PA01	RA23	/N1B	nsp	00MNN05221610	CHIP RESISTOR	220 OHM +- 5% 1/16W
PA01	RA23	/N1S	nsp	00MNN05221610	CHIP RESISTOR	220 OHM +- 5% 1/16W
PA01	RA24	/N1B	nsp	00MNN05222610	CHIP RESISTOR	2.2K OHM +- 5% 1/16W
PA01	RA24	/N1S	nsp	00MNN05222610	CHIP RESISTOR	2.2K OHM +- 5% 1/16W
PA01	RA25		nsp	00MNN05102610	CHIP RESISTOR	1K OHM +- 5% 1/16W
PA01	RA26		nsp	00MNN05102610	CHIP RESISTOR	1K OHM +- 5% 1/16W
PA01	RA27		nsp	00MNN05332610	CHIP RESISTOR	3.3K OHM +- 5% 1/16W
PA01	RA28		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PA01	RA31		00MNI05332110	00MNI05332110	CHIP RESISTOR	3.3K OHM +- 5% 1/10W
PA01	RA32		00MNI05332110	00MNI05332110	CHIP RESISTOR	3.3K OHM +- 5% 1/10W
PA01	RA33		00MNI05222110	00MNI05222110	CHIP RESISTOR	2.2K OHM +- 5% 1/10W
PA01	RA34		00MNI05222110	00MNI05222110	CHIP RESISTOR	2.2K OHM +- 5% 1/10W
PA01	RA35		00MNI05222110	00MNI05222110	CHIP RESISTOR	2.2K OHM +- 5% 1/10W
PA01	RA36		00MNI05222110	00MNI05222110	CHIP RESISTOR	2.2K OHM +- 5% 1/10W
PA01	RA37		00MNI05123110	00MNI05123110	CHIP RESISTOR	12K OHM +- 5% 1/10W
PA01	RA38		00MNI05153110	00MNI05153110	CHIP RESISTOR	15K OHM +- 5% 1/10W
PA01	RA39		00MNI05123110	00MNI05123110	CHIP RESISTOR	12K OHM +- 5% 1/10W
PA01	RA40		00MNI05153110	00MNI05153110	CHIP RESISTOR	15K OHM +- 5% 1/10W
PA01	RA43		00MNI05473110	00MNI05473110	CHIP RESISTOR	47K OHM +- 5% 1/10W
PA01	RA44		00MNI05680110	00MNI05680110	CHIP RESISTOR	68 OHM +- 5% 1/10W
PA01	RA45		00MNI05680110	00MNI05680110	CHIP RESISTOR	68 OHM +- 5% 1/10W
PA01	RA46		00MNI05104110	00MNI05104110	CHIP RESISTOR	100K OHM +- 5% 1/10W
PA01	RA47		nsp	00MNN05224610	CHIP RESISTOR	220K OHM +- 5% 1/16W
PA01	RA48		nsp	00MNN05222610	CHIP RESISTOR	2.2K OHM +- 5% 1/16W
PA01	RA49		nsp	00MNN05222610	CHIP RESISTOR	2.2K OHM +- 5% 1/16W
PA01	RA50		00MNI05680110	00MNI05680110	CHIP RESISTOR	68 OHM +- 5% 1/10W
PA01	RA51	/N1B	nsp	00MNN05221610	CHIP RESISTOR	220 OHM +- 5% 1/16W
PA01	RA51	/N1S	nsp	00MNN05221610	CHIP RESISTOR	220 OHM +- 5% 1/16W
PA01	RA52	/N1B	nsp	00MNN05473610	CHIP RESISTOR	47K OHM +- 5% 1/16W
PA01	RA52	/N1S	nsp	00MNN05473610	CHIP RESISTOR	47K OHM +- 5% 1/16W
PA01	RA53	/N1B	nsp	00MNN05221610	CHIP RESISTOR	220 OHM +- 5% 1/16W
PA01	RA53	/N1S	nsp	00MNN05221610	CHIP RESISTOR	220 OHM +- 5% 1/16W
PA01	RA54	/N1B	nsp	00MNN05222610	CHIP RESISTOR	2.2K OHM +- 5% 1/16W
PA01	RA54	/N1S	nsp	00MNN05222610	CHIP RESISTOR	2.2K OHM +- 5% 1/16W
PA01	RA55		nsp	00MNN05102610	CHIP RESISTOR	1K OHM +- 5% 1/16W
PA01	RA56		nsp	00MNN05102610	CHIP RESISTOR	1K OHM +- 5% 1/16W
PA01	RA57		nsp	00MNN05332610	CHIP RESISTOR	3.3K OHM +- 5% 1/16W
PA01	RA58		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PA01	RA61		nsp	00MNN05332610	CHIP RESISTOR	3.3K OHM +- 5% 1/16W
PA01	RA62		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PA01	RA63		00MNI05101110	00MNI05101110	CHIP RESISTOR	100 OHM +- 5% 1/10W
PA01	RA64		00MNI05101110	00MNI05101110	CHIP RESISTOR	100 OHM +- 5% 1/10W
PA01	RA65		00MNI05101110	00MNI05101110	CHIP RESISTOR	100 OHM +- 5% 1/10W
PA01	RA66		00MNI05104110	00MNI05104110	CHIP RESISTOR	100K OHM +- 5% 1/10W
PA01	RA67		nsp	00MNN05222610	CHIP RESISTOR	2.2K OHM +- 5% 1/16W
PA01	RA68		nsp	00MNN05222610	CHIP RESISTOR	2.2K OHM +- 5% 1/16W
PA01	RA73		00MNI05101110	00MNI05101110	CHIP RESISTOR	100 OHM +- 5% 1/10W
PA01	RA74		00MNI05101110	00MNI05101110	CHIP RESISTOR	100 OHM +- 5% 1/10W
PA01	RA75		00MNI05101110	00MNI05101110	CHIP RESISTOR	100 OHM +- 5% 1/10W
PA01	RA76		00MNI05104110	00MNI05104110	CHIP RESISTOR	100K OHM +- 5% 1/10W
PA01	RA77		nsp	00MNN05222610	CHIP RESISTOR	2.2K OHM +- 5% 1/16W
PA01	RA78		nsp	00MNN05222610	CHIP RESISTOR	2.2K OHM +- 5% 1/16W
PA01	RA91	/F1B	nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PA01	RA91	/F1N	nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PA01	RA91	/L1G	nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PA01	RA91	/U1B	nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PA01	RA92	/N1B	nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PA01	RA92	/N1S	nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PA01	RA93	/S1G	nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PA01	RA95		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PA01	RC01		00MNI05332110	00MNI05332110	CHIP RESISTOR	3.3K OHM +- 5% 1/10W
PA01	RC02		00MNI05332110	00MNI05332110	CHIP RESISTOR	3.3K OHM +- 5% 1/10W
PA01	RC03		00MNI05222110	00MNI05222110	CHIP RESISTOR	2.2K OHM +- 5% 1/10W
PA01	RC04		00MNI05222110	00MNI05222110	CHIP RESISTOR	2.2K OHM +- 5% 1/10W
PA01	RC05		00MNI05222110	00MNI05222110	CHIP RESISTOR	2.2K OHM +- 5% 1/10W
PA01	RC06		00MNI05222110	00MNI05222110	CHIP RESISTOR	2.2K OHM +- 5% 1/10W

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P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	PART NAME	DESCRIPTION
PA01	RC07		00MNI05123110	00MNI05123110	CHIP RESISTOR	12K OHM +- 5% 1/10W
PA01	RC08		00MNI05153110	00MNI05153110	CHIP RESISTOR	15K OHM +- 5% 1/10W
PA01	RC09		00MNI05123110	00MNI05123110	CHIP RESISTOR	12K OHM +- 5% 1/10W
PA01	RC10		00MNI05153110	00MNI05153110	CHIP RESISTOR	15K OHM +- 5% 1/10W
PA01	RC13		00MNI05473110	00MNI05473110	CHIP RESISTOR	47K OHM +- 5% 1/10W
PA01	RC14		00MNI05680110	00MNI05680110	CHIP RESISTOR	68 OHM +- 5% 1/10W
PA01	RC15		00MNI05680110	00MNI05680110	CHIP RESISTOR	68 OHM +- 5% 1/10W
PA01	RC16		00MNI05104110	00MNI05104110	CHIP RESISTOR	100K OHM +- 5% 1/10W
PA01	RC17		nsp	00MNN05224610	CHIP RESISTOR	220K OHM +- 5% 1/16W
PA01	RC18		nsp	00MNN05222610	CHIP RESISTOR	2.2K OHM +- 5% 1/16W
PA01	RC19		nsp	00MNN05222610	CHIP RESISTOR	2.2K OHM +- 5% 1/16W
PA01	RC20		00MNI05680110	00MNI05680110	CHIP RESISTOR	68 OHM +- 5% 1/10W
PA01	RC25		nsp	00MNN05102610	CHIP RESISTOR	1K OHM +- 5% 1/16W
PA01	RC27		nsp	00MNN05332610	CHIP RESISTOR	3.3K OHM +- 5% 1/16W
PA01	RC28		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PA01	RC31		00MNI05332110	00MNI05332110	CHIP RESISTOR	3.3K OHM +- 5% 1/10W
PA01	RC32		00MNI05332110	00MNI05332110	CHIP RESISTOR	3.3K OHM +- 5% 1/10W
PA01	RC33		00MNI05222110	00MNI05222110	CHIP RESISTOR	2.2K OHM +- 5% 1/10W
PA01	RC34		00MNI05222110	00MNI05222110	CHIP RESISTOR	2.2K OHM +- 5% 1/10W
PA01	RC35		00MNI05222110	00MNI05222110	CHIP RESISTOR	2.2K OHM +- 5% 1/10W
PA01	RC36		00MNI05222110	00MNI05222110	CHIP RESISTOR	2.2K OHM +- 5% 1/10W
PA01	RC37		00MNI05123110	00MNI05123110	CHIP RESISTOR	12K OHM +- 5% 1/10W
PA01	RC38		00MNI05153110	00MNI05153110	CHIP RESISTOR	15K OHM +- 5% 1/10W
PA01	RC39		00MNI05123110	00MNI05123110	CHIP RESISTOR	12K OHM +- 5% 1/10W
PA01	RC40		00MNI05153110	00MNI05153110	CHIP RESISTOR	15K OHM +- 5% 1/10W
PA01	RC43		00MNI05473110	00MNI05473110	CHIP RESISTOR	47K OHM +- 5% 1/10W
PA01	RC44		00MNI05680110	00MNI05680110	CHIP RESISTOR	68 OHM +- 5% 1/10W
PA01	RC45		00MNI05680110	00MNI05680110	CHIP RESISTOR	68 OHM +- 5% 1/10W
PA01	RC46		00MNI05104110	00MNI05104110	CHIP RESISTOR	100K OHM +- 5% 1/10W
PA01	RC47		nsp	00MNN05224610	CHIP RESISTOR	220K OHM +- 5% 1/16W
PA01	RC48		nsp	00MNN05222610	CHIP RESISTOR	2.2K OHM +- 5% 1/16W
PA01	RC49		nsp	00MNN05222610	CHIP RESISTOR	2.2K OHM +- 5% 1/16W
PA01	RC50		00MNI05680110	00MNI05680110	CHIP RESISTOR	68 OHM +- 5% 1/10W
PA01	RC55		nsp	00MNN05102610	CHIP RESISTOR	1K OHM +- 5% 1/16W
PA01	RC57		nsp	00MNN05332610	CHIP RESISTOR	3.3K OHM +- 5% 1/16W
PA01	RC58		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PA01	RD02		nsp	00MNN05102610	CHIP RESISTOR	1K OHM +- 5% 1/16W
PA01	RD22		nsp	00MNN05102610	CHIP RESISTOR	1K OHM +- 5% 1/16W
PA01	RD42		nsp	00MNN05102610	CHIP RESISTOR	1K OHM +- 5% 1/16W
PA01	RD61		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PA01	RD62		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PA01	RD64		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PA01	RD65		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PA01	RH01		00MNI05151110	00MNI05151110	CHIP RESISTOR	150 OHM +- 5% 1/10W
PA01	RH02		00MNI05151110	00MNI05151110	CHIP RESISTOR	150 OHM +- 5% 1/10W
PA01	RH03		00MNI05101110	00MNI05101110	CHIP RESISTOR	100 OHM +- 5% 1/10W
PA01	RH04		00MNI05101110	00MNI05101110	CHIP RESISTOR	100 OHM +- 5% 1/10W
PA01	RH05		00MNI05101110	00MNI05101110	CHIP RESISTOR	100 OHM +- 5% 1/10W
PA01	RH06		00MNI01333110	00MNI01333110	CHIP RESISTOR	33K OHM +- 1% 1/10W
PA01	RH07		00MNI05561110	00MNI05561110	CHIP RESISTOR	560 OHM +- 5% 1/10W
PA01	RH08		00MNI05561110	00MNI05561110	CHIP RESISTOR	560 OHM +- 5% 1/10W
PA01	RH09		00MNI05101110	00MNI05101110	CHIP RESISTOR	100 OHM +- 5% 1/10W
PA01	RH11		00MNI05151110	00MNI05151110	CHIP RESISTOR	150 OHM +- 5% 1/10W
PA01	RH12		00MNI05151110	00MNI05151110	CHIP RESISTOR	150 OHM +- 5% 1/10W
PA01	RH13		00MNI05101110	00MNI05101110	CHIP RESISTOR	100 OHM +- 5% 1/10W
PA01	RH14		00MNI05101110	00MNI05101110	CHIP RESISTOR	100 OHM +- 5% 1/10W
PA01	RH15		00MNI05101110	00MNI05101110	CHIP RESISTOR	100 OHM +- 5% 1/10W
PA01	RH16		00MNI01333110	00MNI01333110	CHIP RESISTOR	33K OHM +- 1% 1/10W
PA01	RH17		00MNI05561110	00MNI05561110	CHIP RESISTOR	560 OHM +- 5% 1/10W
PA01	RH18		00MNI05561110	00MNI05561110	CHIP RESISTOR	560 OHM +- 5% 1/10W
PA01	RH19		00MNI05101110	00MNI05101110	CHIP RESISTOR	100 OHM +- 5% 1/10W
PA01	RH21		00MNI05151110	00MNI05151110	CHIP RESISTOR	150 OHM +- 5% 1/10W
PA01	RH22		00MNI05151110	00MNI05151110	CHIP RESISTOR	150 OHM +- 5% 1/10W
PA01	RH23		00MNI05101110	00MNI05101110	CHIP RESISTOR	100 OHM +- 5% 1/10W
PA01	RH24		00MNI05101110	00MNI05101110	CHIP RESISTOR	100 OHM +- 5% 1/10W
PA01	RH25		00MNI05101110	00MNI05101110	CHIP RESISTOR	100 OHM +- 5% 1/10W
PA01	RH26		00MNI01333110	00MNI01333110	CHIP RESISTOR	33K OHM +- 1% 1/10W

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P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	PART NAME	DESCRIPTION
PA01	RH27		00MNI05561110	00MNI05561110	CHIP RESISTOR	560 OHM +- 5% 1/10W
PA01	RH28		00MNI05561110	00MNI05561110	CHIP RESISTOR	560 OHM +- 5% 1/10W
PA01	RH29		00MNI05101110	00MNI05101110	CHIP RESISTOR	100 OHM +- 5% 1/10W
PA01	RH31		00MNI05151110	00MNI05151110	CHIP RESISTOR	150 OHM +- 5% 1/10W
PA01	RH32		00MNI05151110	00MNI05151110	CHIP RESISTOR	150 OHM +- 5% 1/10W
PA01	RH33		00MNI05101110	00MNI05101110	CHIP RESISTOR	100 OHM +- 5% 1/10W
PA01	RH34		00MNI05101110	00MNI05101110	CHIP RESISTOR	100 OHM +- 5% 1/10W
PA01	RH35		00MNI05101110	00MNI05101110	CHIP RESISTOR	100 OHM +- 5% 1/10W
PA01	RH36		00MNI01333110	00MNI01333110	CHIP RESISTOR	33K OHM +- 1% 1/10W
PA01	RH37		00MNI05561110	00MNI05561110	CHIP RESISTOR	560 OHM +- 5% 1/10W
PA01	RH38		00MNI05561110	00MNI05561110	CHIP RESISTOR	560 OHM +- 5% 1/10W
PA01	RH39		00MNI05101110	00MNI05101110	CHIP RESISTOR	100 OHM +- 5% 1/10W
PA01	RH41		00MNI05151110	00MNI05151110	CHIP RESISTOR	150 OHM +- 5% 1/10W
PA01	RH42		00MNI05151110	00MNI05151110	CHIP RESISTOR	150 OHM +- 5% 1/10W
PA01	RH43		00MNI05101110	00MNI05101110	CHIP RESISTOR	100 OHM +- 5% 1/10W
PA01	RH44		00MNI05101110	00MNI05101110	CHIP RESISTOR	100 OHM +- 5% 1/10W
PA01	RH45		00MNI05101110	00MNI05101110	CHIP RESISTOR	100 OHM +- 5% 1/10W
PA01	RH46		00MNI01333110	00MNI01333110	CHIP RESISTOR	33K OHM +- 1% 1/10W
PA01	RH47		00MNI05561110	00MNI05561110	CHIP RESISTOR	560 OHM +- 5% 1/10W
PA01	RH48		00MNI05561110	00MNI05561110	CHIP RESISTOR	560 OHM +- 5% 1/10W
PA01	RH49		00MNI05101110	00MNI05101110	CHIP RESISTOR	100 OHM +- 5% 1/10W
PA01	RH51		00MNI05151110	00MNI05151110	CHIP RESISTOR	150 OHM +- 5% 1/10W
PA01	RH52		00MNI05151110	00MNI05151110	CHIP RESISTOR	150 OHM +- 5% 1/10W
PA01	RH53		00MNI05101110	00MNI05101110	CHIP RESISTOR	100 OHM +- 5% 1/10W
PA01	RH54		00MNI05101110	00MNI05101110	CHIP RESISTOR	100 OHM +- 5% 1/10W
PA01	RH55		00MNI05101110	00MNI05101110	CHIP RESISTOR	100 OHM +- 5% 1/10W
PA01	RH56		00MNI01333110	00MNI01333110	CHIP RESISTOR	33K OHM +- 1% 1/10W
PA01	RH57		00MNI05561110	00MNI05561110	CHIP RESISTOR	560 OHM +- 5% 1/10W
PA01	RH58		00MNI05561110	00MNI05561110	CHIP RESISTOR	560 OHM +- 5% 1/10W
PA01	RH59		00MNI05101110	00MNI05101110	CHIP RESISTOR	100 OHM +- 5% 1/10W
PA01	RS01		00MNI05332110	00MNI05332110	CHIP RESISTOR	3.3K OHM +- 5% 1/10W
PA01	RS02		00MNI05332110	00MNI05332110	CHIP RESISTOR	3.3K OHM +- 5% 1/10W
PA01	RS03		00MNI05222110	00MNI05222110	CHIP RESISTOR	2.2K OHM +- 5% 1/10W
PA01	RS04		00MNI05222110	00MNI05222110	CHIP RESISTOR	2.2K OHM +- 5% 1/10W
PA01	RS05		00MNI05222110	00MNI05222110	CHIP RESISTOR	2.2K OHM +- 5% 1/10W
PA01	RS06		00MNI05222110	00MNI05222110	CHIP RESISTOR	2.2K OHM +- 5% 1/10W
PA01	RS07		00MNI05123110	00MNI05123110	CHIP RESISTOR	12K OHM +- 5% 1/10W
PA01	RS08		00MNI05153110	00MNI05153110	CHIP RESISTOR	15K OHM +- 5% 1/10W
PA01	RS09		00MNI05123110	00MNI05123110	CHIP RESISTOR	12K OHM +- 5% 1/10W
PA01	RS10		00MNI05153110	00MNI05153110	CHIP RESISTOR	15K OHM +- 5% 1/10W
PA01	RS13		00MNI05473110	00MNI05473110	CHIP RESISTOR	47K OHM +- 5% 1/10W
PA01	RS14		00MNI05680110	00MNI05680110	CHIP RESISTOR	68 OHM +- 5% 1/10W
PA01	RS15		00MNI05680110	00MNI05680110	CHIP RESISTOR	68 OHM +- 5% 1/10W
PA01	RS16		00MNI05104110	00MNI05104110	CHIP RESISTOR	100K OHM +- 5% 1/10W
PA01	RS17		nsp	00MNN05224610	CHIP RESISTOR	220K OHM +- 5% 1/16W
PA01	RS18		nsp	00MNN05222610	CHIP RESISTOR	2.2K OHM +- 5% 1/16W
PA01	RS19		nsp	00MNN05222610	CHIP RESISTOR	2.2K OHM +- 5% 1/16W
PA01	RS20		00MNI05680110	00MNI05680110	CHIP RESISTOR	68 OHM +- 5% 1/10W
PA01	RS25		nsp	00MNN05102610	CHIP RESISTOR	1K OHM +- 5% 1/16W
PA01	RS27		nsp	00MNN05332610	CHIP RESISTOR	3.3K OHM +- 5% 1/16W
PA01	RS28		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PA01	RS31		00MNI05332110	00MNI05332110	CHIP RESISTOR	3.3K OHM +- 5% 1/10W
PA01	RS32		00MNI05332110	00MNI05332110	CHIP RESISTOR	3.3K OHM +- 5% 1/10W
PA01	RS33		00MNI05222110	00MNI05222110	CHIP RESISTOR	2.2K OHM +- 5% 1/10W
PA01	RS34		00MNI05222110	00MNI05222110	CHIP RESISTOR	2.2K OHM +- 5% 1/10W
PA01	RS35		00MNI05222110	00MNI05222110	CHIP RESISTOR	2.2K OHM +- 5% 1/10W
PA01	RS36		00MNI05222110	00MNI05222110	CHIP RESISTOR	2.2K OHM +- 5% 1/10W
PA01	RS37		00MNI05123110	00MNI05123110	CHIP RESISTOR	12K OHM +- 5% 1/10W
PA01	RS38		00MNI05153110	00MNI05153110	CHIP RESISTOR	15K OHM +- 5% 1/10W
PA01	RS39		00MNI05123110	00MNI05123110	CHIP RESISTOR	12K OHM +- 5% 1/10W
PA01	RS40		00MNI05153110	00MNI05153110	CHIP RESISTOR	15K OHM +- 5% 1/10W
PA01	RS43		00MNI05473110	00MNI05473110	CHIP RESISTOR	47K OHM +- 5% 1/10W
PA01	RS44		00MNI05680110	00MNI05680110	CHIP RESISTOR	68 OHM +- 5% 1/10W
PA01	RS45		00MNI05680110	00MNI05680110	CHIP RESISTOR	68 OHM +- 5% 1/10W
PA01	RS46		00MNI05104110	00MNI05104110	CHIP RESISTOR	100K OHM +- 5% 1/10W
PA01	RS47		nsp	00MNN05224610	CHIP RESISTOR	220K OHM +- 5% 1/16W
PA01	RS48		nsp	00MNN05222610	CHIP RESISTOR	2.2K OHM +- 5% 1/16W

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P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	PART NAME	DESCRIPTION
PA01	RS49		nsp	00MNN05222610	CHIP RESISTOR	2.2K OHM +- 5% 1/16W
PA01	RS50		00MNI05680110	00MNI05680110	CHIP RESISTOR	68 OHM +- 5% 1/10W
PA01	RS55		nsp	00MNN05102610	CHIP RESISTOR	1K OHM +- 5% 1/16W
PA01	RS57		nsp	00MNN05332610	CHIP RESISTOR	3.3K OHM +- 5% 1/16W
PA01	RS58		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PF01	CF01		nsp	00MDD95101300	CERAMIC CAP.	100 PF +- 5 % CG 50V GR39
PF01	CF02		nsp	00MDD95101300	CERAMIC CAP.	100 PF +- 5 % CG 50V GR39
PF01	CF03		nsp	00MDD95101300	CERAMIC CAP.	100 PF +- 5 % CG 50V GR39
PF01	CF04		nsp	00MDD95101300	CERAMIC CAP.	100 PF +- 5 % CG 50V GR39
PF01	CF05		nsp	00MDD95101300	CERAMIC CAP.	100 PF +- 5 % CG 50V GR39
PF01	CF06		nsp	00MDD95101300	CERAMIC CAP.	100 PF +- 5 % CG 50V GR39
PF01	CF07		nsp	00MDD95101300	CERAMIC CAP.	100 PF +- 5 % CG 50V GR39
PF01	CF11		nsp	00MDD95101300	CERAMIC CAP.	100 PF +- 5 % CG 50V GR39
PF01	CF12		nsp	00MDK98473300	CERAMIC CAP.	0.047UF
PF01	CF15		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PF01	CF17		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PF01	CF22		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PF01	CF24		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PF01	CF71		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PF01	CF72		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PF01	CF73		nsp	00MDD95270300	CERAMIC CAP.	27PF (GR39)
PF01	CF74		nsp	00MDK98473300	CERAMIC CAP.	0.047UF
PF01	CF80		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PF01	CF81		nsp	00MDD95101300	CERAMIC CAP.	100 PF +- 5 % CG 50V GR39
PF01	DF31		00MHI10062320	00MHI10062320	L.E.D.	LT3D8B RED 3O
PF01	DF32		00MHI10045080	00MHI10045080	L.E.D.	SML11516C-TP4
PF01	LF01		00MFC90020110	00MFC90020110	FERRITE CORE	BLM11B601S CHIP FERRITE
PF01	LF02		00MFC90020110	00MFC90020110	FERRITE CORE	BLM11B601S CHIP FERRITE
PF01	LF03		00MFC90020110	00MFC90020110	FERRITE CORE	BLM11B601S CHIP FERRITE
PF01	LF71		00MFC90020110	00MFC90020110	FERRITE CORE	BLM11B601S CHIP FERRITE
PF01	LF72		00MFC90020110	00MFC90020110	FERRITE CORE	BLM11B601S CHIP FERRITE
PF01	QF21		00MBA10026210	00MBA10026210	SEMICON.COMP	DTA114EU
PF01	QF31		00MHX300012A0	00MHX300012A0	CHIP TR.	2SC4081 (Q,R) 2SC4116 (Y,GR)
PF01	QF32		00MHX300012A0	00MHX300012A0	CHIP TR.	2SC4081 (Q,R) 2SC4116 (Y,GR)
PF01	QF33		00MBA10026210	00MBA10026210	SEMICON.COMP	DTA114EU
PF01	QF34		00MHX300012A0	00MHX300012A0	CHIP TR.	2SC4081 (Q,R) 2SC4116 (Y,GR)
PF01	QF35		00MBA10026210	00MBA10026210	SEMICON.COMP	DTA114EU
PF01	QF36		00MHX300012A0	00MHX300012A0	CHIP TR.	2SC4081 (Q,R) 2SC4116 (Y,GR)
PF01	QF71		00MHC10416030	00MHC10416030	IC	FL DRIVER LC75712NE
PF01	QF80		00MHC007805K0	00MHC007805K0	IC	TC74VHCT125AFT OUAD BUS BUFFER
PF01	RF01		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PF01	RF02		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PF01	RF03		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PF01	RF04		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PF01	RF05		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PF01	RF06		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PF01	RF07		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PF01	RF08		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PF01	RF09		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PF01	RF10		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PF01	RF11		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PF01	RF12		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PF01	RF21		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PF01	RF23		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PF01	RF31		nsp	00MNN05223610	CHIP RESISTOR	22K OHM +- 5% 1/16W
PF01	RF32		nsp	00MNN05272610	CHIP RESISTOR	2.7K OHM +- 5% 1/16W
PF01	RF33		nsp	00MNN05223610	CHIP RESISTOR	22K OHM +- 5% 1/16W
PF01	RF34		nsp	00MNN05102610	CHIP RESISTOR	1K OHM +- 5% 1/16W
PF01	RF35		nsp	00MNN05223610	CHIP RESISTOR	22K OHM +- 5% 1/16W
PF01	RF36		nsp	00MNN05272610	CHIP RESISTOR	2.7K OHM +- 5% 1/16W
PF01	RF37		nsp	00MNN05223610	CHIP RESISTOR	22K OHM +- 5% 1/16W
PF01	RF38		nsp	00MNN05332610	CHIP RESISTOR	3.3K OHM +- 5% 1/16W
PF01	RF42		nsp	00MNN05562610	CHIP RESISTOR	5.6K OHM +- 5% 1/16W
PF01	RF43		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PF01	RF45		nsp	00MNN05562610	CHIP RESISTOR	5.6K OHM +- 5% 1/16W
PF01	RF46		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PF01	RF48		nsp	00MNN05562610	CHIP RESISTOR	5.6K OHM +- 5% 1/16W

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P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	PART NAME	DESCRIPTION
PF01	RF71		nsp	00MNN05153610	CHIP RESISTOR	15K OHM +- 5% 1/16W
PF01	RF72		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PF01	RF80		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PF01	SF01		00MSP01012030	00MSP01012030	PUSH SWITCH	SKHVBF 260GF RED
PF01	SF02		00MSP01012030	00MSP01012030	PUSH SWITCH	SKHVBF 260GF RED
PF01	SF03		00MSP01012030	00MSP01012030	PUSH SWITCH	SKHVBF 260GF RED
PF01	SF04		00MSP01012030	00MSP01012030	PUSH SWITCH	SKHVBF 260GF RED
PF01	SF05		00MSP01012030	00MSP01012030	PUSH SWITCH	SKHVBF 260GF RED
PF01	SF06		00MSP01012030	00MSP01012030	PUSH SWITCH	SKHVBF 260GF RED
PF01	SF07		00MSP01012030	00MSP01012030	PUSH SWITCH	SKHVBF 260GF RED
PF01	SF08		00MSP01012030	00MSP01012030	PUSH SWITCH	SKHVBF 260GF RED
PF01	VF01		00MHQ31302920	00MHQ31302920	DISPLAY	VFD CH2099CB
PF01	ZF21		00MHW10004210	00MHW10004210	PHOTO UNIT	RPM6936-V4 (IR SENSOR)
PH01	C959		nsp	00MOA22701620	ELECT. CAP.	220 UF M 16V RA-2
PH01	C960		nsp	00MOA22701620	ELECT. CAP.	220 UF M 16V RA-2
PH01	C961		nsp	00MOA47601620	ELECT. CAP.	47 UF M 16V RA-2
PH01	C962		nsp	00MOA47601620	ELECT. CAP.	47 UF M 16V RA-2
PH01	C963		nsp	00MOA47601620	ELECT. CAP.	47 UF M 16V RA-2
PH01	C964		nsp	00MOA47601620	ELECT. CAP.	47 UF M 16V RA-2
PH01	C965		00MDF15332350	00MDF15332350	FILM CAP.	0.0033UF,J,M,50V
PH01	C966		00MDF15332350	00MDF15332350	FILM CAP.	0.0033UF,J,M,50V
PH01	C967		00MDF15222350	00MDF15222350	FILM CAP.	0.0022UF,J,M,50V
PH01	C968		00MDF15222350	00MDF15222350	FILM CAP.	0.0022UF,J,M,50V
PH01	C969		nsp	00MDD95101300	CERAMIC CAP.	100 PF +- 5 % CG 50V GR39
PH01	C970		nsp	00MDD95101300	CERAMIC CAP.	100 PF +- 5 % CG 50V GR39
PH01	C971		nsp	00MOA47601620	ELECT. CAP.	47 UF M 16V RA-2
PH01	C972		nsp	00MOA47601620	ELECT. CAP.	47 UF M 16V RA-2
PH01	C973		nsp	00MDK96102300	CERAMIC CAP.	1000 PF +- 10 % B 50V GR36
PH01	C974		nsp	00MDK96102300	CERAMIC CAP.	1000 PF +- 10 % B 50V GR36
PH01	J952		00MYJ01004240	00MYJ01004240	JACK	HLJ2307-01-3160
PH01	L957		00MFC90020200	00MFC90020200	FERRITE CORE	BLM18BA121SN1
PH01	L958		00MFC90020200	00MFC90020200	FERRITE CORE	BLM18BA121SN1
PH01	L959		00MFC90020200	00MFC90020200	FERRITE CORE	BLM18BA121SN1
PH01	L960		00MFC90020200	00MFC90020200	FERRITE CORE	BLM18BA121SN1
PH01	L961		00MFC90020200	00MFC90020200	FERRITE CORE	BLM18BA121SN1
PH01	L962		00MFC90020200	00MFC90020200	FERRITE CORE	BLM18BA121SN1
PH01	L963		00MFC90020200	00MFC90020200	FERRITE CORE	BLM18BA121SN1
PH01	L964		00MFC90020200	00MFC90020200	FERRITE CORE	BLM18BA121SN1
PH01	Q951		00MHC10011090	00MHC10011090	IC	NJM4558M(Y)
PH01	Q952		00MHC10045090	00MHC10045090	IC	NJM-4556MB
PH01	Q953		00MBA20016050	00MBA20016050	SEMICON.COMP	HN1C03F(B)(NPNX2(MUTING))
PH01	Q954		00MBA20016050	00MBA20016050	SEMICON.COMP	HN1C03F(B)(NPNX2(MUTING))
PH01	R954		nsp	00MNN05104610	CHIP RESISTOR	100K OHM +- 5% 1/16W
PH01	R955		nsp	00MNN05222610	CHIP RESISTOR	2.2K OHM +- 5% 1/16W
PH01	R956		nsp	00MNN05222610	CHIP RESISTOR	2.2K OHM +- 5% 1/16W
PH01	R957		nsp	00MNN05222610	CHIP RESISTOR	2.2K OHM +- 5% 1/16W
PH01	R958		nsp	00MNN05222610	CHIP RESISTOR	2.2K OHM +- 5% 1/16W
PH01	R959		nsp	00MNN05472610	CHIP RESISTOR	4.7K OHM +- 5% 1/16W
PH01	R960		nsp	00MNN05272610	CHIP RESISTOR	2.7K OHM +- 5% 1/16W
PH01	R961		nsp	00MNN05222610	CHIP RESISTOR	2.2K OHM +- 5% 1/16W
PH01	R962		nsp	00MNN05222610	CHIP RESISTOR	2.2K OHM +- 5% 1/16W
PH01	R963		nsp	00MNN05222610	CHIP RESISTOR	2.2K OHM +- 5% 1/16W
PH01	R964		nsp	00MNN05472610	CHIP RESISTOR	4.7K OHM +- 5% 1/16W
PH01	R965		00MRM01031220	00MRM01031220	VARIABLE RESIST	RK09L12B0 10K B ALPS
PH01	R967		nsp	00MNN05472610	CHIP RESISTOR	4.7K OHM +- 5% 1/16W
PH01	R968		nsp	00MNN05472610	CHIP RESISTOR	4.7K OHM +- 5% 1/16W
PH01	R969		nsp	00MNN05472610	CHIP RESISTOR	4.7K OHM +- 5% 1/16W
PH01	R970		nsp	00MNN05472610	CHIP RESISTOR	4.7K OHM +- 5% 1/16W
PH01	R971		nsp	00MNN05333610	CHIP RESISTOR	33K OHM +- 5% 1/16W
PH01	R972		nsp	00MNN05333610	CHIP RESISTOR	33K OHM +- 5% 1/16W
PH01	R973		nsp	00MNN05473610	CHIP RESISTOR	47K OHM +- 5% 1/16W
PH01	R974		nsp	00MNN05473610	CHIP RESISTOR	47K OHM +- 5% 1/16W
PH01	R975		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PH01	R976		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PH01	R977		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PH01	R978		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PH01	R979		nsp	00MNN05472610	CHIP RESISTOR	4.7K OHM +- 5% 1/16W

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P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	PART NAME	DESCRIPTION
PH01	R980		nsp	00MNN05472610	CHIP RESISTOR	4.7K OHM +- 5% 1/16W
PH01	R981		nsp	00MNN05472610	CHIP RESISTOR	4.7K OHM +- 5% 1/16W
PH01	R982		nsp	00MNN05472610	CHIP RESISTOR	4.7K OHM +- 5% 1/16W
PH01	R983		nsp	00MNN05332610	CHIP RESISTOR	3.3K OHM +- 5% 1/16W
PH01	R984		nsp	00MNN05332610	CHIP RESISTOR	3.3K OHM +- 5% 1/16W
PL01	DF33		00MHI10062320	00MHI10062320	L.E.D.	LT3D8B RED 3O
PM01	C103		00MEY10700620	00MEY10700620	ELECT. CHIP	100UF/6.3V
PM01	C104		00MEY10700620	00MEY10700620	ELECT. CHIP	100UF/6.3V
PM01	C105		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C106		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C107		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C108		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C109		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C110		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C111		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C112		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C113		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C114		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C117		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C118		00MEY22601620	00MEY22601620	ELECT. CHIP	22UF/ 16V
PM01	C119		00MEY22601620	00MEY22601620	ELECT. CHIP	22UF/ 16V
PM01	C120		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C121		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C122		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C123		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C124		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C125		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C126		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C127		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C128		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C129		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C130		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C131		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C132		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C133		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C134		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C135		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C136		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C137		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C138		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C139		00MEY10700620	00MEY10700620	ELECT. CHIP	100UF/6.3V
PM01	C140		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C141		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C142		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C143		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C144		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C145		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C146		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C147		00MEY22601620	00MEY22601620	ELECT. CHIP	22UF/ 16V
PM01	C151		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C152		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C153		00MEY10700620	00MEY10700620	ELECT. CHIP	100UF/6.3V
PM01	C154		00MEY10700620	00MEY10700620	ELECT. CHIP	100UF/6.3V
PM01	C155		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C156		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C157		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C158		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C159		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C160		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C161		nsp	00MDK98105200	CERAMIC CAP.	1UF 10V F
PM01	C162		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C164		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C165		nsp	00MDD95101300	CERAMIC CAP.	100 PF +- 5 % CG 50V GR39
PM01	C166		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C168		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C169		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C170		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K

NOTE : “nsp” PARTS IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	PART NAME	DESCRIPTION
PM01	C171		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C172		nsp	00MDK96102300	CERAMIC CAP.	1000 PF +- 10 % B 50V GR36
PM01	C173		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C174		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C175		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C176		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C177		nsp	00MDD95220300	CERAMIC CAP.	22 PF +- 5 % CG 50V GR39
PM01	C178		nsp	00MDD95220300	CERAMIC CAP.	22 PF +- 5 % CG 50V GR39
PM01	C179		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C180		00MEY10700620	00MEY10700620	ELECT. CHIP	100UF/6.3V
PM01	C181		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C182		nsp	00MDK96102300	CERAMIC CAP.	1000 PF +- 10 % B 50V GR36
PM01	C183		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C184		00MEY22601620	00MEY22601620	ELECT. CHIP	22UF/ 16V
PM01	C185		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C186		nsp	00MDK96102300	CERAMIC CAP.	1000 PF +- 10 % B 50V GR36
PM01	C189		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C190		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C191		nsp	00MDK96154200	CERAMIC CAP.	0.15UF +- 10% B 10V
PM01	C192		00MEY10700620	00MEY10700620	ELECT. CHIP	100UF/6.3V
PM01	C193		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C210		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C211		nsp	00MDK96102300	CERAMIC CAP.	1000 PF +- 10 % B 50V GR36
PM01	C212		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C213		nsp	00MDK96102300	CERAMIC CAP.	1000 PF +- 10 % B 50V GR36
PM01	C214		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C215		nsp	00MDK96102300	CERAMIC CAP.	1000 PF +- 10 % B 50V GR36
PM01	C216		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C217		nsp	00MDK96102300	CERAMIC CAP.	1000 PF +- 10 % B 50V GR36
PM01	C218		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C219		nsp	00MDK96102300	CERAMIC CAP.	1000 PF +- 10 % B 50V GR36
PM01	C220		00MEY22601620	00MEY22601620	ELECT. CHIP	22UF/ 16V
PM01	C221		00MEY47601620	00MEY47601620	ELECT. CHIP	47UF/ 16V
PM01	C222		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C223		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C224		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C230		00MEY10700620	00MEY10700620	ELECT. CHIP	100UF/6.3V
PM01	C231		00MEY10700620	00MEY10700620	ELECT. CHIP	100UF/6.3V
PM01	C232		00MEY10700620	00MEY10700620	ELECT. CHIP	100UF/6.3V
PM01	C234		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C235		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C236		00MEY22601620	00MEY22601620	ELECT. CHIP	22UF/ 16V
PM01	C237		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C242		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C243		nsp	00MDK96102300	CERAMIC CAP.	1000 PF +- 10 % B 50V GR36
PM01	C244		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C245		00MEY10700620	00MEY10700620	ELECT. CHIP	100UF/6.3V
PM01	C246		00MEY10700620	00MEY10700620	ELECT. CHIP	100UF/6.3V
PM01	C247		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C248		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C253		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C254		00MEY22601620	00MEY22601620	ELECT. CHIP	22UF/ 16V
PM01	C255		00MEY22601620	00MEY22601620	ELECT. CHIP	22UF/ 16V
PM01	C256		nsp	00MDK96105200	CERAMIC CAP.	1UF B 6.3V
PM01	C258		nsp	00MDK96102300	CERAMIC CAP.	1000 PF +- 10 % B 50V GR36
PM01	C259		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C260		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C261		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C263		00MEY22601070	00MEY22601070	TANTL.CAP CHIP	22UF/ 10V
PM01	C264		00MEY22601070	00MEY22601070	TANTL.CAP CHIP	22UF/ 10V
PM01	C265		00MEY22601070	00MEY22601070	TANTL.CAP CHIP	22UF/ 10V
PM01	C266		00MEY22601070	00MEY22601070	TANTL.CAP CHIP	22UF/ 10V
PM01	C267		00MEY22601070	00MEY22601070	TANTL.CAP CHIP	22UF/ 10V
PM01	C268		nsp	00MDK96154200	CERAMIC CAP.	0.15UF +- 10% B 10V
PM01	C301		00MEY22601070	00MEY22601070	TANTL.CAP CHIP	22UF/ 10V
PM01	C302		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C303		00MEY22601070	00MEY22601070	TANTL.CAP CHIP	22UF/ 10V

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P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	PART NAME	DESCRIPTION
PM01	C304		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C305		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C306		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C307		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C308		00MEY22601070	00MEY22601070	TANTL.CAP CHIP	22UF/ 10V
PM01	C309		00MEY22601070	00MEY22601070	TANTL.CAP CHIP	22UF/ 10V
PM01	C310		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C311		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C312		00MEY22601070	00MEY22601070	TANTL.CAP CHIP	22UF/ 10V
PM01	C313		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C314		00MEY22501670	00MEY22501670	TANTL.CAP CHIP	2.2UF/ 16V
PM01	C315		nsp	00MDK96105200	CERAMIC CAP.	1UF B 6.3V
PM01	C316		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C317		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C318		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C319		00MEY22601070	00MEY22601070	TANTL.CAP CHIP	22UF/ 10V
PM01	C320		nsp	00MDK96122300	CERAMIC CAP.	1200 PF
PM01	C321		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C322		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C323		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C324		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C325		00MEY22601070	00MEY22601070	TANTL.CAP CHIP	22UF/ 10V
PM01	C326		nsp	00MDK96222300	CERAMIC CAP.	2200PF (GR39)
PM01	C327		nsp	00MDK98473300	CERAMIC CAP.	0.047UF
PM01	C328		00MEY22601070	00MEY22601070	TANTL.CAP CHIP	22UF/ 10V
PM01	C329		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C330		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C331		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C332		00MEY22601070	00MEY22601070	TANTL.CAP CHIP	22UF/ 10V
PM01	C333		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C334		00MEY22601070	00MEY22601070	TANTL.CAP CHIP	22UF/ 10V
PM01	C335		00MEY22601070	00MEY22601070	TANTL.CAP CHIP	22UF/ 10V
PM01	C336		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C337		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C338		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C339		nsp	00MDD91100300	CERAMIC CAP.	10 PF +- 0.5 PF CH 50V GR39
PM01	C340		nsp	00MDD91100300	CERAMIC CAP.	10 PF +- 0.5 PF CH 50V GR39
PM01	C341		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C342		nsp	00MDD95680300	CERAMIC CAP.	68PF (GR39)
PM01	C343		00MEY22601070	00MEY22601070	TANTL.CAP CHIP	22UF/ 10V
PM01	C344		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C345		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C346		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C347		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C348		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C349		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C350		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C351		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C401		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C402		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C403		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C404		00MEY10700620	00MEY10700620	ELECT. CHIP	100UF/6.3V
PM01	C405		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C406		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C407		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C408		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C409		00MEY22601620	00MEY22601620	ELECT. CHIP	22UF/ 16V
PM01	C410		00MEY22601620	00MEY22601620	ELECT. CHIP	22UF/ 16V
PM01	C411		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C412		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C413		nsp	00MDD90020300	CERAMIC CAP.	2 PF +- 0.25 PF CK 50V GR39
PM01	C414		nsp	00MDD90020300	CERAMIC CAP.	2 PF +- 0.25 PF CK 50V GR39
PM01	C415		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C416		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C417		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C418		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C419		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K

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P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	PART NAME	DESCRIPTION
PM01	C420		00MEY22601620	00MEY22601620	ELECT. CHIP	22UF/ 16V
PM01	C421		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C422		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C423		00MEY22601620	00MEY22601620	ELECT. CHIP	22UF/ 16V
PM01	C424		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C425		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C426		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C427		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C428		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C429		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C430		00MEY10700620	00MEY10700620	ELECT. CHIP	100UF/6.3V
PM01	C431		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C432		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C433		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C434		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C435		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C436		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C437		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C438		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C439		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C440		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C441		00MEY10700620	00MEY10700620	ELECT. CHIP	100UF/6.3V
PM01	C442		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C443		00MEY10701620	00MEY10701620	ELECT. CHIP	100UF/ 16V
PM01	C444		00MEY10700620	00MEY10700620	ELECT. CHIP	100UF/6.3V
PM01	C445		00MEY10700620	00MEY10700620	ELECT. CHIP	100UF/6.3V
PM01	C446		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C447		00MEY10700620	00MEY10700620	ELECT. CHIP	100UF/6.3V
PM01	C448		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C449		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C450		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C451		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C452		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C453		00MEY22601620	00MEY22601620	ELECT. CHIP	22UF/ 16V
PM01	C454		00MEY22601620	00MEY22601620	ELECT. CHIP	22UF/ 16V
PM01	C455		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C456		00MEY22601620	00MEY22601620	ELECT. CHIP	22UF/ 16V
PM01	C457		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C458		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C459		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C460		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C461		00MEY10700620	00MEY10700620	ELECT. CHIP	100UF/6.3V
PM01	C462		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C463		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C464		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C465		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C468		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C501		00MEY22601620	00MEY22601620	ELECT. CHIP	22UF/ 16V
PM01	C502		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C503		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C510		00MEY22601620	00MEY22601620	ELECT. CHIP	22UF/ 16V
PM01	C511		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C512		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C513		nsp	00MDK96222300	CERAMIC CAP.	2200PF (GR39)
PM01	C514		nsp	00MDK96222300	CERAMIC CAP.	2200PF (GR39)
PM01	C515		nsp	00MDK96222300	CERAMIC CAP.	2200PF (GR39)
PM01	C516		nsp	00MDK96222300	CERAMIC CAP.	2200PF (GR39)
PM01	C517		nsp	00MDD95220300	CERAMIC CAP.	22 PF +- 5 % CG 50V GR39
PM01	C518		nsp	00MDD95220300	CERAMIC CAP.	22 PF +- 5 % CG 50V GR39
PM01	C519		nsp	00MDD95220300	CERAMIC CAP.	22 PF +- 5 % CG 50V GR39
PM01	C520		nsp	00MDD95220300	CERAMIC CAP.	22 PF +- 5 % CG 50V GR39
PM01	C521		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C522		nsp	00MDK96472300	CERAMIC CAP.	4700 PF +- 10 % B 50V GR39
PM01	C523		nsp	00MDK96472300	CERAMIC CAP.	4700 PF +- 10 % B 50V GR39
PM01	C524		nsp	00MDK96331300	CERAMIC CAP.	330PF (GR39)
PM01	C525		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C526		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K

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P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	PART NAME	DESCRIPTION
PM01	C527		00MEY22601620	00MEY22601620	ELECT. CHIP	22UF/ 16V
PM01	C528		00MEY47601620	00MEY47601620	ELECT. CHIP	47UF/ 16V
PM01	C529		nsp	00MDK96102300	CERAMIC CAP.	1000 PF +- 10 % B 50V GR36
PM01	C530		00MEY47601620	00MEY47601620	ELECT. CHIP	47UF/ 16V
PM01	C531		nsp	00MDK96102300	CERAMIC CAP.	1000 PF +- 10 % B 50V GR36
PM01	C532		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C533		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C534		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C535		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C536		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C537		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C538		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C539		nsp	00MDD95151300	CERAMIC CAP.	150 PF +- 5 % CG 50V GR39
PM01	C540		nsp	00MDK96102300	CERAMIC CAP.	1000 PF +- 10 % B 50V GR36
PM01	C545		00MEY10700620	00MEY10700620	ELECT. CHIP	100UF/6.3V
PM01	C546		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C547		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C548		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C549		00MEY10701620	00MEY10701620	ELECT. CHIP	100UF/ 16V
PM01	C550		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C551		nsp	00MDK96224200	CERAMIC CAP.	0.22UF +- 10% B 10V
PM01	C552		nsp	00MDK96224200	CERAMIC CAP.	0.22UF +- 10% B 10V
PM01	C553		nsp	00MDK96224200	CERAMIC CAP.	0.22UF +- 10% B 10V
PM01	C554		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C555		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C556		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C558		nsp	00MDK96224200	CERAMIC CAP.	0.22UF +- 10% B 10V
PM01	C559		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C560		00MEY22601620	00MEY22601620	ELECT. CHIP	22UF/ 16V
PM01	C561		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C562		nsp	00MDK98473300	CERAMIC CAP.	0.047UF
PM01	C563		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C564		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C565		00MEY22601620	00MEY22601620	ELECT. CHIP	22UF/ 16V
PM01	C566		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C567		00MEY22601620	00MEY22601620	ELECT. CHIP	22UF/ 16V
PM01	C568		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C569		nsp	00MDK96471300	CERAMIC CAP.	470PF (GR39)
PM01	C570		00MEY47700620	00MEY47700620	ELECT. CHIP	470U/6.3V RV-6.3V471MG10
PM01	C571		00MEY22601620	00MEY22601620	ELECT. CHIP	22UF/ 16V
PM01	C572		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C573		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C574		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C575		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C576		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C578		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C580		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C581		nsp	00MDK98473300	CERAMIC CAP.	0.047UF
PM01	C582		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C583		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C584		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C585		nsp	00MDK96471300	CERAMIC CAP.	470PF (GR39)
PM01	C586		nsp	00MDK96471300	CERAMIC CAP.	470PF (GR39)
PM01	C587		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C588		nsp	00MDK96331300	CERAMIC CAP.	330PF (GR39)
PM01	C589		nsp	00MDK96154200	CERAMIC CAP.	0.15UF +- 10% B 10V
PM01	C590		00MEY10700620	00MEY10700620	ELECT. CHIP	100UF/6.3V
PM01	C591		nsp	00MDK96331300	CERAMIC CAP.	330PF (GR39)
PM01	C592		nsp	00MDK96471300	CERAMIC CAP.	470PF (GR39)
PM01	C593		nsp	00MDK96154200	CERAMIC CAP.	0.15UF +- 10% B 10V
PM01	C594		nsp	00MDK96471300	CERAMIC CAP.	470PF (GR39)
PM01	C595		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C596		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C597		nsp	00MDD95101300	CERAMIC CAP.	100 PF +- 5 % CG 50V GR39
PM01	C598		nsp	00MDK96223200	CERAMIC CAP.	0.022 UF +- 10 % XTR 16V
PM01	C599		nsp	00MDK96223200	CERAMIC CAP.	0.022 UF +- 10 % XTR 16V
PM01	C600		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K

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P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	PART NAME	DESCRIPTION
PM01	C601		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C602		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C603		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C604		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C605		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C606		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C607		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C608		00MEY22601620	00MEY22601620	ELECT. CHIP	22UF/ 16V
PM01	C609		00MEY22601620	00MEY22601620	ELECT. CHIP	22UF/ 16V
PM01	C612		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C615		nsp	00MDK96102300	CERAMIC CAP.	1000 PF +- 10 % B 50V GR36
PM01	C616		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C617		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C618		00MEY22601620	00MEY22601620	ELECT. CHIP	22UF/ 16V
PM01	C619		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C620		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C621		00MEY22601620	00MEY22601620	ELECT. CHIP	22UF/ 16V
PM01	C622		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C623		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C624		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C625		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C629		00MEY22601620	00MEY22601620	ELECT. CHIP	22UF/ 16V
PM01	C630		00MEY22601620	00MEY22601620	ELECT. CHIP	22UF/ 16V
PM01	C631		nsp	00MDK96682300	CERAMIC CAP.	6800PF (GR39)
PM01	C632		nsp	00MDK96682300	CERAMIC CAP.	6800PF (GR39)
PM01	C633		nsp	00MDK96102300	CERAMIC CAP.	1000 PF +- 10 % B 50V GR36
PM01	C634		nsp	00MDD95101300	CERAMIC CAP.	100 PF +- 5 % CG 50V GR39
PM01	C635		nsp	00MDD95101300	CERAMIC CAP.	100 PF +- 5 % CG 50V GR39
PM01	C636		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C637		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	C638		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C639		nsp	00MDK96682300	CERAMIC CAP.	6800PF (GR39)
PM01	C950		00MEY22601620	00MEY22601620	ELECT. CHIP	22UF/ 16V
PM01	C951		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C952		00MEY22601620	00MEY22601620	ELECT. CHIP	22UF/ 16V
PM01	C953		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C954		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C955		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	C956		00MEY22601620	00MEY22601620	ELECT. CHIP	22UF/ 16V
PM01	C957		00MEY22601620	00MEY22601620	ELECT. CHIP	22UF/ 16V
PM01	C958		nsp	00MDK96104300	CERAMIC CAP.	C1608X7R1H104K
PM01	CK01		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CK02		nsp	00MDD95101300	CERAMIC CAP.	100 PF +- 5 % CG 50V GR39
PM01	CK03		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CK04		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CK06		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CK07		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CK08		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CK09		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CK10		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CK11		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CK12		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CK13		00MEY10700620	00MEY10700620	ELECT. CHIP	100UF/6.3V
PM01	CK14		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CK15		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CK16		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CK17		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CK18		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CK19		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CK20		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CK21		00MEY10700620	00MEY10700620	ELECT. CHIP	100UF/6.3V
PM01	CK22		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CK23		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CK24		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CK25		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CK26		nsp	00MDD95101300	CERAMIC CAP.	100 PF +- 5 % CG 50V GR39
PM01	CK27		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA

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P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	PART NAME	DESCRIPTION
PM01	CK28		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CK29		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CK30		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CK31		00MEY10700620	00MEY10700620	ELECT. CHIP	100UF/6.3V
PM01	CK32		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CK33		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CK34		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CK35		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CK36		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CK37		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CK38		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CK39		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CK40		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CK41		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CK42		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CK43		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CK44		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CK45		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CK46		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CK47		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CK48		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CK49		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CK50		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CK51		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CK52		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CK91		00MEY10601070	00MEY10601070	TANTL.CAP CHIP	10UF/ 10V
PM01	CK92		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CK93		00MEY10700620	00MEY10700620	ELECT. CHIP	100UF/6.3V
PM01	CK94		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CK95		00MEY10601070	00MEY10601070	TANTL.CAP CHIP	10UF/ 10V
PM01	CK96		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CK97		00MEY10700620	00MEY10700620	ELECT. CHIP	100UF/6.3V
PM01	CK98		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CK99		nsp	00MDK98105200	CERAMIC CAP.	1UF 10V F
PM01	CM01		00MEY10700620	00MEY10700620	ELECT. CHIP	100UF/6.3V
PM01	CM02		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CM03		00MEY10700620	00MEY10700620	ELECT. CHIP	100UF/6.3V
PM01	CM04		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CM05		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CM06		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CM07		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CM08		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CM09		nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	CM10		nsp	00MDK96821300	CERAMIC CAP.	820PF +- 10%
PM01	CM11		nsp	00MDK96392300	CERAMIC CAP.	W5R 0.0039UF
PM01	CM13		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CM14		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CM15		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CM16		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CM17		nsp	00MDK98105200	CERAMIC CAP.	1UF 10V F
PM01	CM19		00MEY10700620	00MEY10700620	ELECT. CHIP	100UF/6.3V
PM01	CM20		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CM21		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CM22		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CM23		00MEY10700620	00MEY10700620	ELECT. CHIP	100UF/6.3V
PM01	CM24		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CM25		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CM26		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CM27		00MEY10700620	00MEY10700620	ELECT. CHIP	100UF/6.3V
PM01	CM28		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CM29		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CM30		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CM31		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CM91		00MEY10601070	00MEY10601070	TANTL.CAP CHIP	10UF/ 10V
PM01	CM92		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CM93		00MEY10700620	00MEY10700620	ELECT. CHIP	100UF/6.3V
PM01	CM94		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA

NOTE : “nsp” PARTS IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	PART NAME	DESCRIPTION
PM01	CN01	/N1B	00MEY10700620	00MEY10700620	ELECT. CHIP	100UF/6.3V
PM01	CN01	/N1S	00MEY10700620	00MEY10700620	ELECT. CHIP	100UF/6.3V
PM01	CN02	/N1B	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CN02	/N1S	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CN03	/N1B	00MEY10700620	00MEY10700620	ELECT. CHIP	100UF/6.3V
PM01	CN03	/N1S	00MEY10700620	00MEY10700620	ELECT. CHIP	100UF/6.3V
PM01	CN04	/N1B	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CN04	/N1S	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CN05	/N1B	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CN05	/N1S	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CN06	/N1B	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CN06	/N1S	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CN07	/N1B	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CN07	/N1S	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CN08	/N1B	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CN08	/N1S	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CN09	/N1B	nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	CN09	/N1S	nsp	00MDK96103300	CERAMIC CAP.	0.01UF +-10% 50V C1608JB1H103K
PM01	CN10	/N1B	nsp	00MDK96821300	CERAMIC CAP.	820PF +- 10%
PM01	CN10	/N1S	nsp	00MDK96821300	CERAMIC CAP.	820PF +- 10%
PM01	CN11	/N1B	nsp	00MDK96392300	CERAMIC CAP.	W5R 0.0039UF
PM01	CN11	/N1S	nsp	00MDK96392300	CERAMIC CAP.	W5R 0.0039UF
PM01	CN13	/N1B	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CN13	/N1S	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CN14	/N1B	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CN14	/N1S	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CN15	/N1B	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CN15	/N1S	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CN16	/N1B	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CN16	/N1S	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CN17	/N1B	nsp	00MDK98105200	CERAMIC CAP.	1UF 10V F
PM01	CN17	/N1S	nsp	00MDK98105200	CERAMIC CAP.	1UF 10V F
PM01	CN19	/N1B	00MEY10700620	00MEY10700620	ELECT. CHIP	100UF/6.3V
PM01	CN19	/N1S	00MEY10700620	00MEY10700620	ELECT. CHIP	100UF/6.3V
PM01	CN20	/N1B	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CN20	/N1S	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CN21	/N1B	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CN21	/N1S	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CN22	/N1B	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CN22	/N1S	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CN23	/N1B	00MEY10700620	00MEY10700620	ELECT. CHIP	100UF/6.3V
PM01	CN23	/N1S	00MEY10700620	00MEY10700620	ELECT. CHIP	100UF/6.3V
PM01	CN24	/N1B	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CN24	/N1S	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CN25	/N1B	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CN25	/N1S	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CN26	/N1B	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CN26	/N1S	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CU01		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CU02		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CU03		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CU04		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CU05		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CU06		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CU07		nsp	00MDD95101300	CERAMIC CAP.	100 PF +- 5 % CG 50V GR39
PM01	CU23		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CU91		00MEY47601620	00MEY47601620	ELECT. CHIP	47UF/ 16V
PM01	CU92		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	CU93		00MEY10700620	00MEY10700620	ELECT. CHIP	100UF/6.3V
PM01	CU94		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PM01	D101		00MHZ21303210	00MHZ21303210	CHIP DIODE	DIOD 1SS355
PM01	D102		00MHZ21303210	00MHZ21303210	CHIP DIODE	DIOD 1SS355
PM01	D103		00MHZ21303210	00MHZ21303210	CHIP DIODE	DIOD 1SS355
PM01	D104		00MHZ21303210	00MHZ21303210	CHIP DIODE	DIOD 1SS355
PM01	D105		00MHZ21303210	00MHZ21303210	CHIP DIODE	DIOD 1SS355
PM01	D106		00MHZ20038050	00MHZ20038050	CHIP DIODE	1SS300 (TOSHIBA)
PM01	D107		00MHZ20038050	00MHZ20038050	CHIP DIODE	1SS300 (TOSHIBA)

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P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	PART NAME	DESCRIPTION
PM01	D108		00MHZ21303210	00MHZ21303210	CHIP DIODE	DIOD 1SS355
PM01	D501		00MHZ20002020	00MHZ20002020	CHIP DIODE	MA151WA
PM01	D502		00MHZ20002020	00MHZ20002020	CHIP DIODE	MA151WA
PM01	DU01		00MHZ20038050	00MHZ20038050	CHIP DIODE	1SS300 (TOSHIBA)
PM01	DU02		00MHZ21005000	00MHZ21005000	CHIP DIODE	1SS301,DAN202U UMT TYPE
PM01	DU03		00MHZ21005000	00MHZ21005000	CHIP DIODE	1SS301,DAN202U UMT TYPE
PM01	DU04		00MHZ21005000	00MHZ21005000	CHIP DIODE	1SS301,DAN202U UMT TYPE
PM01	J121		00MYJ07022290	00MYJ07022290	JACK	B15B-PH-SM3-TB
PM01	J503		00MYJ07061090	00MYJ07061090	JACK	52207-1590 1MM FFC 15P
PM01	J506		00MYJ07016680	00MYJ07016680	JACK	24FLZ-SM1-TB
PM01	JK01		00MYJ07060190	00MYJ07060190	JACK	40FLT-SM1-TB
PM01	L101		00MFM12223020	00MFM12223020	EMI FILTER	DSS306-55F223Z16 DC MAX:16V
PM01	L102		00MFC90020200	00MFC90020200	FERRITE CORE	BLM18BA121SN1
PM01	L103		00MFC90020200	00MFC90020200	FERRITE CORE	BLM18BA121SN1
PM01	L104		00MFC90020200	00MFC90020200	FERRITE CORE	BLM18BA121SN1
PM01	L105		00MFC90020200	00MFC90020200	FERRITE CORE	BLM18BA121SN1
PM01	L109		00MFC90020200	00MFC90020200	FERRITE CORE	BLM18BA121SN1
PM01	L110		00MFC90020200	00MFC90020200	FERRITE CORE	BLM18BA121SN1
PM01	L111		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	L112		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	L114		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	L115		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	L116		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	L117		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	L118		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	L119		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	L122		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	L301		00MFC90020200	00MFC90020200	FERRITE CORE	BLM18BA121SN1
PM01	L302		00MFC90020200	00MFC90020200	FERRITE CORE	BLM18BA121SN1
PM01	L401		00MFC90020150	00MFC90020150	FERRITE CORE	BLM11P300S
PM01	L402		00MFC90020150	00MFC90020150	FERRITE CORE	BLM11P300S
PM01	L403		00MFC90020150	00MFC90020150	FERRITE CORE	BLM11P300S
PM01	L404		00MFC90020150	00MFC90020150	FERRITE CORE	BLM11P300S
PM01	L405		00MFC90020150	00MFC90020150	FERRITE CORE	BLM11P300S
PM01	L406		00MFC90020150	00MFC90020150	FERRITE CORE	BLM11P300S
PM01	L407		00MFC90020150	00MFC90020150	FERRITE CORE	BLM11P300S
PM01	L501		00MFC90020200	00MFC90020200	FERRITE CORE	BLM18BA121SN1
PM01	L502		00MFC90020200	00MFC90020200	FERRITE CORE	BLM18BA121SN1
PM01	L503		00MFC90020200	00MFC90020200	FERRITE CORE	BLM18BA121SN1
PM01	L951		00MFC90020200	00MFC90020200	FERRITE CORE	BLM18BA121SN1
PM01	L952		00MFC90020200	00MFC90020200	FERRITE CORE	BLM18BA121SN1
PM01	L953		00MFC90020200	00MFC90020200	FERRITE CORE	BLM18BA121SN1
PM01	L954		00MFC90020200	00MFC90020200	FERRITE CORE	BLM18BA121SN1
PM01	L955		00MFC90020200	00MFC90020200	FERRITE CORE	BLM18BA121SN1
PM01	L956		00MFC90020200	00MFC90020200	FERRITE CORE	BLM18BA121SN1
PM01	LK01		00MFN31010060	00MFN31010060	EMI FILTER	EMI FILTER BLM11P600S
PM01	LK02		00MFN31010060	00MFN31010060	EMI FILTER	EMI FILTER BLM11P600S
PM01	LK03		00MFN31010060	00MFN31010060	EMI FILTER	EMI FILTER BLM11P600S
PM01	LK04		00MFN31010060	00MFN31010060	EMI FILTER	EMI FILTER BLM11P600S
PM01	LK11		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	LK12		00MFN31010060	00MFN31010060	EMI FILTER	EMI FILTER BLM11P600S
PM01	LK13		00MFN31010060	00MFN31010060	EMI FILTER	EMI FILTER BLM11P600S
PM01	LK14		00MFN31010060	00MFN31010060	EMI FILTER	EMI FILTER BLM11P600S
PM01	LK15		00MFN31010060	00MFN31010060	EMI FILTER	EMI FILTER BLM11P600S
PM01	LK16		00MFN31010060	00MFN31010060	EMI FILTER	EMI FILTER BLM11P600S
PM01	LK17		00MFN31010060	00MFN31010060	EMI FILTER	EMI FILTER BLM11P600S
PM01	LK18		00MFN31010060	00MFN31010060	EMI FILTER	EMI FILTER BLM11P600S
PM01	LK19		00MFN31010060	00MFN31010060	EMI FILTER	EMI FILTER BLM11P600S
PM01	LK20		00MFN31010060	00MFN31010060	EMI FILTER	EMI FILTER BLM11P600S
PM01	LK21		00MFN31010060	00MFN31010060	EMI FILTER	EMI FILTER BLM11P600S
PM01	LK22		00MFN31010060	00MFN31010060	EMI FILTER	EMI FILTER BLM11P600S
PM01	LK23		00MFN31010060	00MFN31010060	EMI FILTER	EMI FILTER BLM11P600S
PM01	LK24		00MFN31010060	00MFN31010060	EMI FILTER	EMI FILTER BLM11P600S
PM01	LK25		00MFN31010060	00MFN31010060	EMI FILTER	EMI FILTER BLM11P600S
PM01	LK26		00MFN31010060	00MFN31010060	EMI FILTER	EMI FILTER BLM11P600S
PM01	LK27		00MFN31010060	00MFN31010060	EMI FILTER	EMI FILTER BLM11P600S
PM01	LK28		00MFN31010060	00MFN31010060	EMI FILTER	EMI FILTER BLM11P600S

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P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	PART NAME	DESCRIPTION
PM01	LK29		00MFN31010060	00MFN31010060	EMI FILTER	EMI FILTER BLM11P600S
PM01	LK30		00MFN31010060	00MFN31010060	EMI FILTER	EMI FILTER BLM11P600S
PM01	LK31		00MFN31010060	00MFN31010060	EMI FILTER	EMI FILTER BLM11P600S
PM01	LK32		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	LK33		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	LK34		00MFN31010060	00MFN31010060	EMI FILTER	EMI FILTER BLM11P600S
PM01	LK35		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	LK36		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	LK37		00MFN31010060	00MFN31010060	EMI FILTER	EMI FILTER BLM11P600S
PM01	LK38		00MFN31010060	00MFN31010060	EMI FILTER	EMI FILTER BLM11P600S
PM01	LM01		00MFN31010060	00MFN31010060	EMI FILTER	EMI FILTER BLM11P600S
PM01	LM02		00MFN31010060	00MFN31010060	EMI FILTER	EMI FILTER BLM11P600S
PM01	LM03		00MLU12103010	00MLU12103010	CHIP INDUCTANCE	NL322522-100K
PM01	LM04		00MLU12103010	00MLU12103010	CHIP INDUCTANCE	NL322522-100K
PM01	LM05		00MLU12103010	00MLU12103010	CHIP INDUCTANCE	NL322522-100K
PM01	LM06		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	LM07		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	LM08		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	LM09		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	LM10		00MFN31010060	00MFN31010060	EMI FILTER	EMI FILTER BLM11P600S
PM01	LN01	/N1B	00MFN31010060	00MFN31010060	EMI FILTER	EMI FILTER BLM11P600S
PM01	LN01	/N1S	00MFN31010060	00MFN31010060	EMI FILTER	EMI FILTER BLM11P600S
PM01	LN02	/N1B	00MFN31010060	00MFN31010060	EMI FILTER	EMI FILTER BLM11P600S
PM01	LN02	/N1S	00MFN31010060	00MFN31010060	EMI FILTER	EMI FILTER BLM11P600S
PM01	LN03	/N1B	00MLU12103010	00MLU12103010	CHIP INDUCTANCE	NL322522-100K
PM01	LN03	/N1S	00MLU12103010	00MLU12103010	CHIP INDUCTANCE	NL322522-100K
PM01	LN04	/N1B	00MLU12103010	00MLU12103010	CHIP INDUCTANCE	NL322522-100K
PM01	LN04	/N1S	00MLU12103010	00MLU12103010	CHIP INDUCTANCE	NL322522-100K
PM01	LU01		00MFC90020110	00MFC90020110	FERRITE CORE	BLM11B601S CHIP FERRITE
PM01	LU02		00MFC90020110	00MFC90020110	FERRITE CORE	BLM11B601S CHIP FERRITE
PM01	LU03		00MFC90020110	00MFC90020110	FERRITE CORE	BLM11B601S CHIP FERRITE
PM01	Q101		00MHC11039200	00MHC11039200	IC	M65776BFP
PM01	Q102		00MHC11040200	00MHC11040200	IC	M32102S6FP
PM01	Q103		00MHS21AKM10F	00MHS21AKM10F	ONE TIME PROM	M5M29GB320VP
PM01	Q104		00MHC12250990	00MHC12250990	IC	W986416DH-7
PM01	Q105		00MHC10016350	00MHC10016350	IC	SM8707EV
PM01	Q108		00MHC000337K0	00MHC000337K0	IC	SN74LV138APW
PM01	Q109		00MHC000437K0	00MHC000437K0	IC	SN74LV273ANS
PM01	Q111		00MHC000137K0	00MHC000137K0	IC	SN74LV04APWR
PM01	Q112		00MHC700405Z0	00MHC700405Z0	IC	TC7SU04F
PM01	Q113		00MHC10431990	00MHC10431990	IC	AT24C04N-10SI-2.5(SHRINK)
PM01	Q114		00MHC96J33210	00MHC96J33210	IC	BA033FP 3.3V 1A PD=1W VD=0.3V
PM01	Q115		00MHC98J18210	00MHC98J18210	IC	BA18BC0FP-E2 1.8V REG.
PM01	⚠ Q116		00MHC98907320	00MHC98907320	IC	! PQ070XZ01ZP
PM01	Q117		00MHC96J33210	00MHC96J33210	IC	BA033FP 3.3V 1A PD=1W VD=0.3V
PM01	Q118		00MHC98J18210	00MHC98J18210	IC	BA18BC0FP-E2 1.8V REG.
PM01	⚠ Q119		00MHC98907320	00MHC98907320	IC	! PQ070XZ01ZP
PM01	Q203		00MHC000537K0	00MHC000537K0	IC	SN74LV244APW
PM01	Q204		00MHC010805K0	00MHC010805K0	IC	TC74VHC157AF
PM01	Q205		00MHC010805K0	00MHC010805K0	IC	TC74VHC157AF
PM01	Q206		00MHC010805K0	00MHC010805K0	IC	TC74VHC157AF
PM01	Q207		00MHC005805K0	00MHC005805K0	IC	TC74VHC157FT TAPING
PM01	Q301		00MHC10021880	00MHC10021880	IC	CS494003-CQ
PM01	Q302		90M-HS21AKX0R	90M-HS21AKX0R	IC	4M FLASH FPT-48P-M19
PM01	Q303		00MHC10004910	00MHC10004910	IC	K4S161622D-TC60
PM01	Q304		00MHC10019880	00MHC10019880	IC	CS8420-CS
PM01	Q305		00MHC10017350	00MHC10017350	IC	SM5819AF
PM01	Q306		00MHC010505K0	00MHC010505K0	IC	TC74VHCT32AFT
PM01	Q307		00MHC005805K0	00MHC005805K0	IC	TC74VHC157FT TAPING
PM01	Q308		00MHC700801P0	00MHC700801P0	IC	HD74LVC08
PM01	Q401		00MHC10081250	00MHC10081250	IC	CXD2753R DSD DSP
PM01	Q402		00MHC10156990	00MHC10156990	IC	EM636165TS-7
PM01	Q403		00MHC10209990	00MHC10209990	IC	AD8062 2-CH HIGH-SPEED AMP
PM01	Q404		00MHC12249990	00MHC12249990	IC	EPM3128ATC100-10
PM01	Q405		00MHC000137K0	00MHC000137K0	IC	SN74LV04APW
PM01	Q501		00MHC10083250	00MHC10083250	IC	CXD1881AR
PM01	Q502		00MHC10084250	00MHC10084250	IC	CXD1885Q

NOTE : “nsp” PARTS IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	PART NAME	DESCRIPTION
PM01	Q503		00MHC10210990	00MHC10210990	IC	M11L6161SA 1MX16ED0 RAM
PM01	Q505		00MHC10178020	00MHC10178020	IC	AN8471SA-E1
PM01	Q507		00MHC700805S0	00MHC700805S0	IC	TC7S08F TOSHIBA TAPING
PM01	Q508		00MHC10018110	00MHC10018110	IC	FAN8042
PM01	Q510		00MHX211322A0	00MHX211322A0	CHIP TR.	2SB1132Q,R
PM01	Q511		00MHX211322A0	00MHX211322A0	CHIP TR.	2SB1132Q,R
PM01	Q512		00MHX300012A0	00MHX300012A0	CHIP TR.	2SC4081 (Q,R) 2SC4116 (Y,GR)
PM01	Q950		00MHC10013880	00MHC10013880	IC	CS4392-KS 24BIT 192KHZ DAC
PM01	QK01		00MHC10019660	00MHC10019660	IC	CD0040AF I/P CONVERTER
PM01	QK03		00MHC10001910	00MHC10001910	IC	K4S643232E-TC60 64M SDRAM
PM01	QK04		00MHC006105K0	00MHC006105K0	IC	TC74VHC541FT TAPING
PM01	QK05		00MHC006105K0	00MHC006105K0	IC	TC74VHC541FT TAPING
PM01	QK06		00MHC006105K0	00MHC006105K0	IC	TC74VHC541FT TAPING
PM01	QK07		00MHC10384050	00MHC10384050	IC	TC7S66FU
PM01	QK08		00MHC10384050	00MHC10384050	IC	TC7S66FU
PM01	QK09		00MHC10440050	00MHC10440050	IC	TC7SH08FU 932211931682
PM01	QK10		00MHC006105K0	00MHC006105K0	IC	TC74VHC541FT TAPING
PM01	QK11		00MHC006105K0	00MHC006105K0	IC	TC74VHC541FT TAPING
PM01	QK12		00MHC10440050	00MHC10440050	IC	TC7SH08FU 932211931682
PM01	QK91		00MHC91903210	00MHC91903210	IC	BA033SFP 3.3V WITH-SW LOW-SATU
PM01	QK92		00MHC10228210	00MHC10228210	IC	BA25BC0WFP 2.5V REG.
PM01	QM01		00MHC10090840	00MHC10090840	IC	ADV7314 VIDEO ENCODER
PM01	QM02		00MHX100012A0	00MHX100012A0	CHIP TR.	2SA1586 (Y,GR) 2SA1576A (Q,R)
PM01	QM03		00MHX100012A0	00MHX100012A0	CHIP TR.	2SA1586 (Y,GR) 2SA1576A (Q,R)
PM01	QM04		00MHX100012A0	00MHX100012A0	CHIP TR.	2SA1586 (Y,GR) 2SA1576A (Q,R)
PM01	QM05		00MHX100012A0	00MHX100012A0	CHIP TR.	2SA1586 (Y,GR) 2SA1576A (Q,R)
PM01	QM06		00MHX100012A0	00MHX100012A0	CHIP TR.	2SA1586 (Y,GR) 2SA1576A (Q,R)
PM01	QM07		00MHX100012A0	00MHX100012A0	CHIP TR.	2SA1586 (Y,GR) 2SA1576A (Q,R)
PM01	QM08		00MHC10440050	00MHC10440050	IC	TC7SH08FU 932211931682
PM01	QM91		00MHC10228210	00MHC10228210	IC	BA25BC0WFP 2.5V REG.
PM01	QN01	/N1B	00MHC10089840	00MHC10089840	IC	ADV7310KST VIDEO ENCODER
PM01	QN01	/N1S	00MHC10089840	00MHC10089840	IC	ADV7310KST VIDEO ENCODER
PM01	QN02	/N1B	00MHX100012A0	00MHX100012A0	CHIP TR.	2SA1586 (Y,GR) 2SA1576A (Q,R)
PM01	QN02	/N1S	00MHX100012A0	00MHX100012A0	CHIP TR.	2SA1586 (Y,GR) 2SA1576A (Q,R)
PM01	QN03	/N1B	00MHX100012A0	00MHX100012A0	CHIP TR.	2SA1586 (Y,GR) 2SA1576A (Q,R)
PM01	QN03	/N1S	00MHX100012A0	00MHX100012A0	CHIP TR.	2SA1586 (Y,GR) 2SA1576A (Q,R)
PM01	QN04	/N1B	00MHX100012A0	00MHX100012A0	CHIP TR.	2SA1586 (Y,GR) 2SA1576A (Q,R)
PM01	QN04	/N1S	00MHX100012A0	00MHX100012A0	CHIP TR.	2SA1586 (Y,GR) 2SA1576A (Q,R)
PM01	QU01		00MHS21AKH00F	00MHS21AKH00F	ONE TIME PROM	PANEL MICROPROCESSOR VER.1.00
PM01	QU02		00MHC10431990	00MHC10431990	IC	AT24C04N-10SI-2.5(SHRINK)
PM01	QU03		00MHC10229210	00MHC10229210	IC	BD4727G RESET IC 2.7V
PM01	QU04		00MHX300012A0	00MHX300012A0	CHIP TR.	2SC4081 (Q,R) 2SC4116 (Y,GR)
PM01	QU05		00MHX300012A0	00MHX300012A0	CHIP TR.	2SC4081 (Q,R) 2SC4116 (Y,GR)
PM01	QU06		00MHX100012A0	00MHX100012A0	CHIP TR.	2SA1586 (Y,GR) 2SA1576A (Q,R)
PM01	QU07		00MBA20035210	00MBA20035210	SEMICON.COMP	DTC114EU
PM01	QU08		00MBA20035210	00MBA20035210	SEMICON.COMP	DTC114EU
PM01	QU09		00MBA10026210	00MBA10026210	SEMICON.COMP	DTA114EU
PM01	QU10		00MBA20035210	00MBA20035210	SEMICON.COMP	DTC114EU
PM01	QU15		00MBA20035210	00MBA20035210	SEMICON.COMP	DTC114EU
PM01	QU16		00MHX300012A0	00MHX300012A0	CHIP TR.	2SC4081 (Q,R) 2SC4116 (Y,GR)
PM01	QU91		00MHC98203090	00MHC98203090	IC	NJU7222U33 3.3V REG.
PM01	R101		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	R102		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R105		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R106		nsp	00MNN05472610	CHIP RESISTOR	4.7K OHM +- 5% 1/16W
PM01	R107		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R108		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R110		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R111		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R112		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R113		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R114		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R115		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R116		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R117		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R119		nsp	00MNN05102610	CHIP RESISTOR	1K OHM +- 5% 1/16W
PM01	R120		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W

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P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	PART NAME	DESCRIPTION
PM01	R121		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R122		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R123		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R124		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R125		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PM01	R127		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R128		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R129		nsp	00MNN05332610	CHIP RESISTOR	3.3K OHM +- 5% 1/16W
PM01	R130		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R131		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R132		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PM01	R133		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R134		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PM01	R135		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PM01	R136		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PM01	R137		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PM01	R138		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R139		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R140		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R141		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R142		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PM01	R143		nsp	00MNN05102610	CHIP RESISTOR	1K OHM +- 5% 1/16W
PM01	R144		nsp	00MNN05470610	CHIP RESISTOR	47 OHM +- 5% 1/16W
PM01	R145		nsp	00MNN05470610	CHIP RESISTOR	47 OHM +- 5% 1/16W
PM01	R146		nsp	00MNN05470610	CHIP RESISTOR	47 OHM +- 5% 1/16W
PM01	R147		nsp	00MNN05470610	CHIP RESISTOR	47 OHM +- 5% 1/16W
PM01	R148		nsp	00MNN05470610	CHIP RESISTOR	47 OHM +- 5% 1/16W
PM01	R149		nsp	00MNN05222610	CHIP RESISTOR	2.2K OHM +- 5% 1/16W
PM01	R150		nsp	00MNN05222610	CHIP RESISTOR	2.2K OHM +- 5% 1/16W
PM01	R151		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R152		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R153		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R154		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R155		nsp	00MNN05102610	CHIP RESISTOR	1K OHM +- 5% 1/16W
PM01	R156		nsp	00MNN05102610	CHIP RESISTOR	1K OHM +- 5% 1/16W
PM01	R159		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R160		nsp	00MNN05470610	CHIP RESISTOR	47 OHM +- 5% 1/16W
PM01	R161		nsp	00MNN05470610	CHIP RESISTOR	47 OHM +- 5% 1/16W
PM01	R162		00MFC90020110	00MFC90020110	FERRITE CORE	BLM11B601S CHIP FERRITE
PM01	R163		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PM01	R164		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R166		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R167		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R168		nsp	00MNN05470610	CHIP RESISTOR	47 OHM +- 5% 1/16W
PM01	R169		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PM01	R170		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	R172		nsp	00MNN05470610	CHIP RESISTOR	47 OHM +- 5% 1/16W
PM01	R173		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R175		nsp	00MNN05470610	CHIP RESISTOR	47 OHM +- 5% 1/16W
PM01	R176		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R182		nsp	00MNN05470610	CHIP RESISTOR	47 OHM +- 5% 1/16W
PM01	R183		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R187		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R189		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R190		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R191		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R192		nsp	00MNN05102610	CHIP RESISTOR	1K OHM +- 5% 1/16W
PM01	R194		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R195		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R196		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R197		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R198		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PM01	R199		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	R201		00MBW05220020	00MBW05220020	RESISTOR COMPO.	CN1J4KTD22J
PM01	R202		00MBW05220020	00MBW05220020	RESISTOR COMPO.	CN1J4KTD22J
PM01	R203		00MBW05220020	00MBW05220020	RESISTOR COMPO.	CN1J4KTD22J
PM01	R204		00MBW05220020	00MBW05220020	RESISTOR COMPO.	CN1J4KTD22J

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P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	PART NAME	DESCRIPTION
PM01	R205		00MBW05220020	00MBW05220020	RESISTOR COMPO.	CN1J4KTD22J
PM01	R206		00MBW05220020	00MBW05220020	RESISTOR COMPO.	CN1J4KTD22J
PM01	R207		00MBW05220020	00MBW05220020	RESISTOR COMPO.	CN1J4KTD22J
PM01	R208		00MBW05220020	00MBW05220020	RESISTOR COMPO.	CN1J4KTD22J
PM01	R209		00MBW05220020	00MBW05220020	RESISTOR COMPO.	CN1J4KTD22J
PM01	R210		00MBW05220020	00MBW05220020	RESISTOR COMPO.	CN1J4KTD22J
PM01	R211		00MBW05220020	00MBW05220020	RESISTOR COMPO.	CN1J4KTD22J
PM01	R212		00MBW05103320	00MBW05103320	RESISTOR COMPO.	10K OHM X 4 J (CN1J) KOA
PM01	R213		00MBW05103320	00MBW05103320	RESISTOR COMPO.	10K OHM X 4 J (CN1J) KOA
PM01	R214		00MBW05103320	00MBW05103320	RESISTOR COMPO.	10K OHM X 4 J (CN1J) KOA
PM01	R215		00MBW05103320	00MBW05103320	RESISTOR COMPO.	10K OHM X 4 J (CN1J) KOA
PM01	R220		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R221		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R227		nsp	00MNN05473610	CHIP RESISTOR	47K OHM +- 5% 1/16W
PM01	R228		nsp	00MNN05102610	CHIP RESISTOR	1K OHM +- 5% 1/16W
PM01	R229		nsp	00MNN05102610	CHIP RESISTOR	1K OHM +- 5% 1/16W
PM01	R230		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R231		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R233		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PM01	R234		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PM01	R235		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PM01	R236		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PM01	R237		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R238		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R239		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R240		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R241		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PM01	R242		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R243		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PM01	R246		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R248		nsp	00MNN05102610	CHIP RESISTOR	1K OHM +- 5% 1/16W
PM01	R249		nsp	00MNN05102610	CHIP RESISTOR	1K OHM +- 5% 1/16W
PM01	R251		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R252		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R253		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R255		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R256		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R257		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R262		nsp	00MNN05470610	CHIP RESISTOR	47 OHM +- 5% 1/16W
PM01	R263		nsp	00MNN05470610	CHIP RESISTOR	47 OHM +- 5% 1/16W
PM01	R265		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R266		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R267		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R268		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R269		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R270		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R271		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R272		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R273		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R274		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R275		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R276		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R277		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R278		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R279		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R280		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R281		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R282		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	R283		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	R284		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	R285		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R286		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R288		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R289		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PM01	R290		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PM01	R291		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PM01	R292		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W

NOTE : “nsp” PARTS IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	PART NAME	DESCRIPTION
PM01	R293		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R294		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R295		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R296		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R297		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R298		nsp	00MNN05473610	CHIP RESISTOR	47K OHM +- 5% 1/16W
PM01	R301		nsp	00MNN05332610	CHIP RESISTOR	3.3K OHM +- 5% 1/16W
PM01	R302		nsp	00MNN05332610	CHIP RESISTOR	3.3K OHM +- 5% 1/16W
PM01	R303		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R304		nsp	00MNN05332610	CHIP RESISTOR	3.3K OHM +- 5% 1/16W
PM01	R305		nsp	00MNN05332610	CHIP RESISTOR	3.3K OHM +- 5% 1/16W
PM01	R306		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R307		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R308		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R309		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R310		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R311		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R312		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R313		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R314		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R315		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R316		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R317		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R318		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R319		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	R320		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R321		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R322		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R323		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R324		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R325		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R326		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R327		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R328		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R329		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R330		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R331		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R332		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R333		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R334		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R335		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R336		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PM01	R337		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R339		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PM01	R340		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PM01	R341		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PM01	R342		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PM01	R343		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R345		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R346		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R347		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R348		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R349		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R350		nsp	00MNN05152610	CHIP RESISTOR	1.5K OHM +- 5% 1/16W
PM01	R351		nsp	00MNN05152610	CHIP RESISTOR	1.5K OHM +- 5% 1/16W
PM01	R353		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R354		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R355		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R356		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R357		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R358		nsp	00MNN05332610	CHIP RESISTOR	3.3K OHM +- 5% 1/16W
PM01	R360		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R361		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R362		nsp	00MNN05332610	CHIP RESISTOR	3.3K OHM +- 5% 1/16W
PM01	R363		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R364		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R365		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W

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P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	PART NAME	DESCRIPTION
PM01	R366		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R367		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R368		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R369		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R370		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R373		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R374		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R375		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R376		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PM01	R377		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PM01	R378		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PM01	R379		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PM01	R380		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PM01	R381		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PM01	R382		nsp	00MNN05105610	CHIP RESISTOR	1M OHM +- 5% 1/16W
PM01	R383		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R390		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R391		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R394		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PM01	R395		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	R396		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	R401		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	R402		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	R403		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	R404		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	R405		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	R406		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	R407		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	R408		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	R409		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	R410		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	R411		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	R412		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	R413		nsp	00MNN05102610	CHIP RESISTOR	1K OHM +- 5% 1/16W
PM01	R414		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R415		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R416		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R417		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R418		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R419		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R420		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R421		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R422		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R423		nsp	00MNN05332610	CHIP RESISTOR	3.3K OHM +- 5% 1/16W
PM01	R424		nsp	00MNN05222610	CHIP RESISTOR	2.2K OHM +- 5% 1/16W
PM01	R425		nsp	00MNN05202610	CHIP RESISTOR	MCR03EZHUJ202 2120 108 92178
PM01	R426		nsp	00MNN05202610	CHIP RESISTOR	MCR03EZHUJ202 2120 108 92178
PM01	R427		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	R428		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	R429		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	R430		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	R431		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	R432		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R433		nsp	00MNN05222610	CHIP RESISTOR	2.2K OHM +- 5% 1/16W
PM01	R434		nsp	00MNN05102610	CHIP RESISTOR	1K OHM +- 5% 1/16W
PM01	R435		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R436		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R437		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	R438		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	R439		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	R440		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	R441		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	R442		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	R443		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	R444		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	R445		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	R446		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W

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P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	PART NAME	DESCRIPTION
PM01	R447		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	R448		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	R449		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	R450		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PM01	R451		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PM01	R452		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PM01	R453		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PM01	R454		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PM01	R455		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PM01	R456		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PM01	R459		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R460		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R461		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R462		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R463		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R464		nsp	00MNN05102610	CHIP RESISTOR	1K OHM +- 5% 1/16W
PM01	R465		nsp	00MNN05102610	CHIP RESISTOR	1K OHM +- 5% 1/16W
PM01	R466		nsp	00MNN05102610	CHIP RESISTOR	1K OHM +- 5% 1/16W
PM01	R467		nsp	00MNN05102610	CHIP RESISTOR	1K OHM +- 5% 1/16W
PM01	R468		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R475		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R476		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R481		00MBW05220020	00MBW05220020	RESISTOR COMPO.	CN1J4KTD22J
PM01	R482		00MBW05220020	00MBW05220020	RESISTOR COMPO.	CN1J4KTD22J
PM01	R483		00MBW05220020	00MBW05220020	RESISTOR COMPO.	CN1J4KTD22J
PM01	R484		00MBW05220020	00MBW05220020	RESISTOR COMPO.	CN1J4KTD22J
PM01	R485		00MBW05220020	00MBW05220020	RESISTOR COMPO.	CN1J4KTD22J
PM01	R486		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R487		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R488		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R489		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R490		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PM01	R491		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PM01	R501		nsp	00MNN05820610	CHIP RESISTOR	82 OHM +- 5% 1/16W
PM01	R502		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	R505		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R506		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R507		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R508		nsp	00MNN05152610	CHIP RESISTOR	1.5K OHM +- 5% 1/16W
PM01	R509		nsp	00MNN05152610	CHIP RESISTOR	1.5K OHM +- 5% 1/16W
PM01	R510		nsp	00MNN05152610	CHIP RESISTOR	1.5K OHM +- 5% 1/16W
PM01	R511		nsp	00MNN05152610	CHIP RESISTOR	1.5K OHM +- 5% 1/16W
PM01	R512		nsp	00MNN05152610	CHIP RESISTOR	1.5K OHM +- 5% 1/16W
PM01	R513		nsp	00MNN05152610	CHIP RESISTOR	1.5K OHM +- 5% 1/16W
PM01	R514		nsp	00MNN05152610	CHIP RESISTOR	1.5K OHM +- 5% 1/16W
PM01	R515		nsp	00MNN05152610	CHIP RESISTOR	1.5K OHM +- 5% 1/16W
PM01	R516		nsp	00MNN05390610	CHIP RESISTOR	39 OHM +- 5% 1/16W
PM01	R517		nsp	00MNN05390610	CHIP RESISTOR	39 OHM +- 5% 1/16W
PM01	R518		nsp	00MNN05390610	CHIP RESISTOR	39 OHM +- 5% 1/16W
PM01	R519		nsp	00MNN05390610	CHIP RESISTOR	39 OHM +- 5% 1/16W
PM01	R520		nsp	00MNN05470610	CHIP RESISTOR	47 OHM +- 5% 1/16W
PM01	R521		nsp	00MNN05470610	CHIP RESISTOR	47 OHM +- 5% 1/16W
PM01	R522		nsp	00MNN05470610	CHIP RESISTOR	47 OHM +- 5% 1/16W
PM01	R523		nsp	00MNN05470610	CHIP RESISTOR	47 OHM +- 5% 1/16W
PM01	R524		nsp	00MNN05124610	CHIP RESISTOR	120K OHM +- 5% 1/16W
PM01	R527		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	R528		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	R534		nsp	00MNN05124610	CHIP RESISTOR	120K OHM +- 5% 1/16W
PM01	R536		nsp	00MNN05102610	CHIP RESISTOR	1K OHM +- 5% 1/16W
PM01	R537		nsp	00MNN05104610	CHIP RESISTOR	100K OHM +- 5% 1/16W
PM01	R538		nsp	00MNN05181610	CHIP RESISTOR	180 OHM +- 5% 1/16W
PM01	R539		nsp	00MNN05473610	CHIP RESISTOR	47K OHM +- 5% 1/16W
PM01	R540		nsp	00MNN05104610	CHIP RESISTOR	100K OHM +- 5% 1/16W
PM01	R542		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R544		nsp	00MNN05102610	CHIP RESISTOR	1K OHM +- 5% 1/16W
PM01	R545		00MNI01123110	00MNI01123110	CHIP RESISTOR	12K OHM +- 1% 1/10W
PM01	R547		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W

NOTE : “nsp” PARTS IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	PART NAME	DESCRIPTION
PM01	R548		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R549		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R550		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R551		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R552		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R553		nsp	00MNN05333610	CHIP RESISTOR	33K OHM +- 5% 1/16W
PM01	R554		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R555		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R556		nsp	00MNN05102610	CHIP RESISTOR	1K OHM +- 5% 1/16W
PM01	R557		nsp	00MNN05223610	CHIP RESISTOR	22K OHM +- 5% 1/16W
PM01	R558		nsp	00MNN05182610	CHIP RESISTOR	1.8K OHM +- 5% 1/16W
PM01	R559		nsp	00MNN05104610	CHIP RESISTOR	100K OHM +- 5% 1/16W
PM01	R560		nsp	00MNN05473610	CHIP RESISTOR	47K OHM +- 5% 1/16W
PM01	R561		nsp	00MNN05683610	CHIP RESISTOR	68K OHM +- 5% 1/16W
PM01	R562		nsp	00MNN05471610	CHIP RESISTOR	470 OHM +- 5% 1/16W
PM01	R563		nsp	00MNN05154610	CHIP RESISTOR	150K OHM +- 5% 1/16W
PM01	R564		nsp	00MNN05473610	CHIP RESISTOR	47K OHM +- 5% 1/16W
PM01	R565		nsp	00MNN05563610	CHIP RESISTOR	56K OHM +- 5% 1/16W
PM01	R566		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R567		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PM01	R568		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R570		nsp	00MNN05102610	CHIP RESISTOR	1K OHM +- 5% 1/16W
PM01	R574		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R577		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R592		nsp	00MNN05010610	CHIP RESISTOR	1 OHM +- 5% 1/16W
PM01	R593		nsp	00MNN05010610	CHIP RESISTOR	1 OHM +- 5% 1/16W
PM01	R594		nsp	00MNN05010610	CHIP RESISTOR	1 OHM +- 5% 1/16W
PM01	R595		nsp	00MNN05010610	CHIP RESISTOR	1 OHM +- 5% 1/16W
PM01	R601		00MBW05101350	00MBW05101350	RESISTOR COMPO.	CN1J4TTD101J 100 OHM X 4
PM01	R602		00MBW05101350	00MBW05101350	RESISTOR COMPO.	CN1J4TTD101J 100 OHM X 4
PM01	R603		00MBW05101350	00MBW05101350	RESISTOR COMPO.	CN1J4TTD101J 100 OHM X 4
PM01	R604		00MBW05101350	00MBW05101350	RESISTOR COMPO.	CN1J4TTD101J 100 OHM X 4
PM01	R605		00MBW05101350	00MBW05101350	RESISTOR COMPO.	CN1J4TTD101J 100 OHM X 4
PM01	R606		00MBW05101350	00MBW05101350	RESISTOR COMPO.	CN1J4TTD101J 100 OHM X 4
PM01	R607		00MBW05101350	00MBW05101350	RESISTOR COMPO.	CN1J4TTD101J 100 OHM X 4
PM01	R608		00MBW05103320	00MBW05103320	RESISTOR COMPO.	10K OHM X 4 J (CN1J) KOA
PM01	R609		00MBW05103320	00MBW05103320	RESISTOR COMPO.	10K OHM X 4 J (CN1J) KOA
PM01	R610		00MBW05103320	00MBW05103320	RESISTOR COMPO.	10K OHM X 4 J (CN1J) KOA
PM01	R611		00MBW05103320	00MBW05103320	RESISTOR COMPO.	10K OHM X 4 J (CN1J) KOA
PM01	R612		00MBW05103320	00MBW05103320	RESISTOR COMPO.	10K OHM X 4 J (CN1J) KOA
PM01	R615		nsp	00MNN05223610	CHIP RESISTOR	22K OHM +- 5% 1/16W
PM01	R616		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R617		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R618		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R620		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R621		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	R622		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	R623		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	R624		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	R625		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	R626		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	R627		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	R628		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	R629		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	R630		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	R631		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	R632		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	R633		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	R634		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	R635		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PM01	R636		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	R637		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PM01	R638		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PM01	R639		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	R640		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	R641		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	R642		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W

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P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	PART NAME	DESCRIPTION
PM01	R643		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PM01	R644		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PM01	R645		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R646		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R647		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R648		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R649		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	R650		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	R651		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	R652		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	R653		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	R654		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	R655		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	R656		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R657		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R658		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R659		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R660		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R661		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R662		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R663		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R664		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R665		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R666		nsp	00MNN05223610	CHIP RESISTOR	22K OHM +- 5% 1/16W
PM01	R667		nsp	00MNN05223610	CHIP RESISTOR	22K OHM +- 5% 1/16W
PM01	R668		nsp	00MNN05223610	CHIP RESISTOR	22K OHM +- 5% 1/16W
PM01	R669		nsp	00MNN05223610	CHIP RESISTOR	22K OHM +- 5% 1/16W
PM01	R670		nsp	00MNN05512610	CHIP RESISTOR	5.1K OHM +- 5% 1/16W
PM01	R671		nsp	00MNN05563610	CHIP RESISTOR	56K OHM +- 5% 1/16W
PM01	R672		nsp	00MNN05563610	CHIP RESISTOR	56K OHM +- 5% 1/16W
PM01	R673		nsp	00MNN05563610	CHIP RESISTOR	56K OHM +- 5% 1/16W
PM01	R674		nsp	00MNN05333610	CHIP RESISTOR	33K OHM +- 5% 1/16W
PM01	R675		nsp	00MNN05333610	CHIP RESISTOR	33K OHM +- 5% 1/16W
PM01	R676		nsp	00MNN05333610	CHIP RESISTOR	33K OHM +- 5% 1/16W
PM01	R677		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R678		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R679		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R680		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R681		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R682		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R683		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R684		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R685		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R686		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R687		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R688		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	R690		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R691		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	R692		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	R693		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	R694		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	R699		nsp	00MNN05223610	CHIP RESISTOR	22K OHM +- 5% 1/16W
PM01	R950		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R951		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	R985		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	R986		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	RK01		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PM01	RK02		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	RK03		00MBW05101350	00MBW05101350	RESISTOR COMPO.	CN1J4TTD101J 100 OHM X 4
PM01	RK04		00MBW05101350	00MBW05101350	RESISTOR COMPO.	CN1J4TTD101J 100 OHM X 4
PM01	RK07		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	RK08		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	RK11		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	RK14		00MBW05101350	00MBW05101350	RESISTOR COMPO.	CN1J4TTD101J 100 OHM X 4
PM01	RK15		00MBW05101350	00MBW05101350	RESISTOR COMPO.	CN1J4TTD101J 100 OHM X 4
PM01	RK16		00MBW05101350	00MBW05101350	RESISTOR COMPO.	CN1J4TTD101J 100 OHM X 4
PM01	RK17		00MBW05101350	00MBW05101350	RESISTOR COMPO.	CN1J4TTD101J 100 OHM X 4

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P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	PART NAME	DESCRIPTION
PM01	RK18		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	RK19		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	RK20		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	RK21		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	RK22		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	RK23		00MBW05101350	00MBW05101350	RESISTOR COMPO.	CN1J4TTD101J 100 OHM X 4
PM01	RK24		00MBW05101350	00MBW05101350	RESISTOR COMPO.	CN1J4TTD101J 100 OHM X 4
PM01	RK25		00MBW05101350	00MBW05101350	RESISTOR COMPO.	CN1J4TTD101J 100 OHM X 4
PM01	RK26		00MBW05101350	00MBW05101350	RESISTOR COMPO.	CN1J4TTD101J 100 OHM X 4
PM01	RK27		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	RK28		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	RK29		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	RK30		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	RK31		00MBW05103320	00MBW05103320	RESISTOR COMPO.	10K OHM X 4 J (CN1J) KOA
PM01	RK32		00MBW05103320	00MBW05103320	RESISTOR COMPO.	10K OHM X 4 J (CN1J) KOA
PM01	RK33		00MBW05103320	00MBW05103320	RESISTOR COMPO.	10K OHM X 4 J (CN1J) KOA
PM01	RK34		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	RK35		00MBW05220020	00MBW05220020	RESISTOR COMPO.	CN1J4KTD22J
PM01	RK36		00MBW05220020	00MBW05220020	RESISTOR COMPO.	CN1J4KTD22J
PM01	RK37		00MBW05220020	00MBW05220020	RESISTOR COMPO.	CN1J4KTD22J
PM01	RK38		00MBW05220020	00MBW05220020	RESISTOR COMPO.	CN1J4KTD22J
PM01	RK39		00MBW05220020	00MBW05220020	RESISTOR COMPO.	CN1J4KTD22J
PM01	RK42		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	RK43		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	RK44		nsp	00MNN05223610	CHIP RESISTOR	22K OHM +- 5% 1/16W
PM01	RK45		nsp	00MNN05223610	CHIP RESISTOR	22K OHM +- 5% 1/16W
PM01	RK46		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	RK47		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	RK48		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	RK49		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	RK52		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	RK53		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	RK54		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	RK55		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	RK56		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	RK57		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	RK58		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	RK59		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	RK60		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	RK61		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	RK62		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	RK64		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	RK65		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	RK91		nsp	00MNN05102610	CHIP RESISTOR	1K OHM +- 5% 1/16W
PM01	RM01		00MBW05220020	00MBW05220020	RESISTOR COMPO.	CN1J4KTD22J
PM01	RM02		00MBW05220020	00MBW05220020	RESISTOR COMPO.	CN1J4KTD22J
PM01	RM03		00MBW05220020	00MBW05220020	RESISTOR COMPO.	CN1J4KTD22J
PM01	RM04		00MBW05220020	00MBW05220020	RESISTOR COMPO.	CN1J4KTD22J
PM01	RM05		00MBW05220020	00MBW05220020	RESISTOR COMPO.	CN1J4KTD22J
PM01	RM06		nsp	00MNN05472610	CHIP RESISTOR	4.7K OHM +- 5% 1/16W
PM01	RM07		nsp	00MNN05472610	CHIP RESISTOR	4.7K OHM +- 5% 1/16W
PM01	RM08		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	RM09		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	RM10		nsp	00MNN05472610	CHIP RESISTOR	4.7K OHM +- 5% 1/16W
PM01	RM11		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	RM12		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	RM13		nsp	00MNN05681610	CHIP RESISTOR	680 OHM +- 5% 1/16W
PM01	RM14		nsp	00MNN05272610	CHIP RESISTOR	2.7K OHM +- 5% 1/16W
PM01	RM15		nsp	00MNN05391610	CHIP RESISTOR	390 OHM +- 5% 1/16W
PM01	RM16		nsp	00MNN05682610	CHIP RESISTOR	6.8K OHM +- 5% 1/16W
PM01	RM17		nsp	00MNN05682610	CHIP RESISTOR	6.8K OHM +- 5% 1/16W
PM01	RM19		nsp	00MNN05272610	CHIP RESISTOR	2.7K OHM +- 5% 1/16W
PM01	RM20		nsp	00MNN05391610	CHIP RESISTOR	390 OHM +- 5% 1/16W
PM01	RM21		nsp	00MNN05472610	CHIP RESISTOR	4.7K OHM +- 5% 1/16W
PM01	RM24		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	RM25		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	RM26		00MBW05220020	00MBW05220020	RESISTOR COMPO.	CN1J4KTD22J

P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	PART NAME	DESCRIPTION
PM01	RM27		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	RM28		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	RM29		00MBW05220020	00MBW05220020	RESISTOR COMPO.	CN1J4KTD22J
PM01	RM30		nsp	00MNN05681610	CHIP RESISTOR	680 OHM +- 5% 1/16W
PM01	RM31		nsp	00MNN05561610	CHIP RESISTOR	560 OHM +- 5% 1/16W
PM01	RM32		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	RM33		nsp	00MNN05182610	CHIP RESISTOR	1.8K OHM +- 5% 1/16W
PM01	RM34		nsp	00MNN05681610	CHIP RESISTOR	680 OHM +- 5% 1/16W
PM01	RM35		nsp	00MNN05561610	CHIP RESISTOR	560 OHM +- 5% 1/16W
PM01	RM36		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	RM37		nsp	00MNN05182610	CHIP RESISTOR	1.8K OHM +- 5% 1/16W
PM01	RM38		nsp	00MNN05681610	CHIP RESISTOR	680 OHM +- 5% 1/16W
PM01	RM39		nsp	00MNN05561610	CHIP RESISTOR	560 OHM +- 5% 1/16W
PM01	RM40		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	RM41		nsp	00MNN05182610	CHIP RESISTOR	1.8K OHM +- 5% 1/16W
PM01	RM42		nsp	00MNN05681610	CHIP RESISTOR	680 OHM +- 5% 1/16W
PM01	RM43		nsp	00MNN05561610	CHIP RESISTOR	560 OHM +- 5% 1/16W
PM01	RM44		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	RM45		nsp	00MNN05182610	CHIP RESISTOR	1.8K OHM +- 5% 1/16W
PM01	RM46		nsp	00MNN05681610	CHIP RESISTOR	680 OHM +- 5% 1/16W
PM01	RM47		nsp	00MNN05561610	CHIP RESISTOR	560 OHM +- 5% 1/16W
PM01	RM48		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	RM49		nsp	00MNN05182610	CHIP RESISTOR	1.8K OHM +- 5% 1/16W
PM01	RM50		nsp	00MNN05681610	CHIP RESISTOR	680 OHM +- 5% 1/16W
PM01	RM51		nsp	00MNN05561610	CHIP RESISTOR	560 OHM +- 5% 1/16W
PM01	RM52		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	RM53		nsp	00MNN05182610	CHIP RESISTOR	1.8K OHM +- 5% 1/16W
PM01	RM54		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	RM55		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	RN01	/N1B	nsp	00MNN05472610	CHIP RESISTOR	4.7K OHM +- 5% 1/16W
PM01	RN01	/N1S	nsp	00MNN05472610	CHIP RESISTOR	4.7K OHM +- 5% 1/16W
PM01	RN02	/N1B	nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	RN02	/N1S	nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	RN03	/N1B	nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	RN03	/N1S	nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	RN04	/N1B	nsp	00MNN05472610	CHIP RESISTOR	4.7K OHM +- 5% 1/16W
PM01	RN04	/N1S	nsp	00MNN05472610	CHIP RESISTOR	4.7K OHM +- 5% 1/16W
PM01	RN05	/N1B	nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	RN05	/N1S	nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	RN06	/N1B	nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	RN06	/N1S	nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	RN10	/N1B	nsp	00MNN05681610	CHIP RESISTOR	680 OHM +- 5% 1/16W
PM01	RN10	/N1S	nsp	00MNN05681610	CHIP RESISTOR	680 OHM +- 5% 1/16W
PM01	RN11	/N1B	nsp	00MNN05272610	CHIP RESISTOR	2.7K OHM +- 5% 1/16W
PM01	RN11	/N1S	nsp	00MNN05272610	CHIP RESISTOR	2.7K OHM +- 5% 1/16W
PM01	RN12	/N1B	nsp	00MNN05391610	CHIP RESISTOR	390 OHM +- 5% 1/16W
PM01	RN12	/N1S	nsp	00MNN05391610	CHIP RESISTOR	390 OHM +- 5% 1/16W
PM01	RN13	/N1B	nsp	00MNN05682610	CHIP RESISTOR	6.8K OHM +- 5% 1/16W
PM01	RN13	/N1S	nsp	00MNN05682610	CHIP RESISTOR	6.8K OHM +- 5% 1/16W
PM01	RN14	/N1B	nsp	00MNN05682610	CHIP RESISTOR	6.8K OHM +- 5% 1/16W
PM01	RN14	/N1S	nsp	00MNN05682610	CHIP RESISTOR	6.8K OHM +- 5% 1/16W
PM01	RN16	/N1B	nsp	00MNN05272610	CHIP RESISTOR	2.7K OHM +- 5% 1/16W
PM01	RN16	/N1S	nsp	00MNN05272610	CHIP RESISTOR	2.7K OHM +- 5% 1/16W
PM01	RN17	/N1B	nsp	00MNN05391610	CHIP RESISTOR	390 OHM +- 5% 1/16W
PM01	RN17	/N1S	nsp	00MNN05391610	CHIP RESISTOR	390 OHM +- 5% 1/16W
PM01	RN18	/N1B	nsp	00MNN05472610	CHIP RESISTOR	4.7K OHM +- 5% 1/16W
PM01	RN18	/N1S	nsp	00MNN05472610	CHIP RESISTOR	4.7K OHM +- 5% 1/16W
PM01	RN21	/N1B	nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	RN21	/N1S	nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	RN22	/N1B	nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	RN22	/N1S	nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	RN23	/N1B	00MBW05220020	00MBW05220020	RESISTOR COMPO.	CN1J4KTD22J
PM01	RN23	/N1S	00MBW05220020	00MBW05220020	RESISTOR COMPO.	CN1J4KTD22J
PM01	RN24	/N1B	nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	RN24	/N1S	nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	RN25	/N1B	nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PM01	RN25	/N1S	nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W

NOTE : “nsp” PARTS IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	PART NAME	DESCRIPTION
PM01	RN26	/N1B	00MBW05220020	00MBW05220020	RESISTOR COMPO.	CN1J4KTD22J
PM01	RN26	/N1S	00MBW05220020	00MBW05220020	RESISTOR COMPO.	CN1J4KTD22J
PM01	RN27	/N1B	nsp	00MNN05681610	CHIP RESISTOR	680 OHM +- 5% 1/16W
PM01	RN27	/N1S	nsp	00MNN05681610	CHIP RESISTOR	680 OHM +- 5% 1/16W
PM01	RN28	/N1B	nsp	00MNN05561610	CHIP RESISTOR	560 OHM +- 5% 1/16W
PM01	RN28	/N1S	nsp	00MNN05561610	CHIP RESISTOR	560 OHM +- 5% 1/16W
PM01	RN29	/N1B	nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	RN29	/N1S	nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	RN30	/N1B	nsp	00MNN05182610	CHIP RESISTOR	1.8K OHM +- 5% 1/16W
PM01	RN30	/N1S	nsp	00MNN05182610	CHIP RESISTOR	1.8K OHM +- 5% 1/16W
PM01	RN31	/N1B	nsp	00MNN05681610	CHIP RESISTOR	680 OHM +- 5% 1/16W
PM01	RN31	/N1S	nsp	00MNN05681610	CHIP RESISTOR	680 OHM +- 5% 1/16W
PM01	RN32	/N1B	nsp	00MNN05561610	CHIP RESISTOR	560 OHM +- 5% 1/16W
PM01	RN32	/N1S	nsp	00MNN05561610	CHIP RESISTOR	560 OHM +- 5% 1/16W
PM01	RN33	/N1B	nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	RN33	/N1S	nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	RN34	/N1B	nsp	00MNN05182610	CHIP RESISTOR	1.8K OHM +- 5% 1/16W
PM01	RN34	/N1S	nsp	00MNN05182610	CHIP RESISTOR	1.8K OHM +- 5% 1/16W
PM01	RN35	/N1B	nsp	00MNN05681610	CHIP RESISTOR	680 OHM +- 5% 1/16W
PM01	RN35	/N1S	nsp	00MNN05681610	CHIP RESISTOR	680 OHM +- 5% 1/16W
PM01	RN36	/N1B	nsp	00MNN05561610	CHIP RESISTOR	560 OHM +- 5% 1/16W
PM01	RN36	/N1S	nsp	00MNN05561610	CHIP RESISTOR	560 OHM +- 5% 1/16W
PM01	RN37	/N1B	nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	RN37	/N1S	nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	RN38		nsp	00MNN05182610	CHIP RESISTOR	1.8K OHM +- 5% 1/16W
PM01	RN38	/N1B	nsp	00MNN05182610	CHIP RESISTOR	1.8K OHM +- 5% 1/16W
PM01	RN38	/N1S	nsp	00MNN05182610	CHIP RESISTOR	1.8K OHM +- 5% 1/16W
PM01	RU01		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	RU02		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	RU03		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	RU04		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	RU05		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	RU06		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	RU07		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	RU09		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	RU11		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	RU13		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	RU14		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	RU15		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	RU16		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	RU17		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	RU18		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	RU19		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	RU20		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	RU21		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	RU22		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	RU23		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	RU24		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	RU25		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	RU28		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	RU31		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	RU32		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	RU33		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	RU34		nsp	00MNN05473610	CHIP RESISTOR	47K OHM +- 5% 1/16W
PM01	RU35		nsp	00MNN05153610	CHIP RESISTOR	15K OHM +- 5% 1/16W
PM01	RU36		nsp	00MNN05104610	CHIP RESISTOR	100K OHM +- 5% 1/16W
PM01	RU37		nsp	00MNN05473610	CHIP RESISTOR	47K OHM +- 5% 1/16W
PM01	RU38		nsp	00MNN05472610	CHIP RESISTOR	4.7K OHM +- 5% 1/16W
PM01	RU39		nsp	00MNN05104610	CHIP RESISTOR	100K OHM +- 5% 1/16W
PM01	RU40		nsp	00MNN05223610	CHIP RESISTOR	22K OHM +- 5% 1/16W
PM01	RU41		nsp	00MNN05224610	CHIP RESISTOR	220K OHM +- 5% 1/16W
PM01	RU42		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	RU43		nsp	00MNN05473610	CHIP RESISTOR	47K OHM +- 5% 1/16W
PM01	RU44		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	RU45		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	RU46		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	RU47		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W

NOTE : “nsp” PARTS IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	PART NAME	DESCRIPTION
PM01	RU48		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	RU49		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	RU52		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	RU53		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	RU54		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	RU55		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	RU56		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	RU57		nsp	00MNN05473610	CHIP RESISTOR	47K OHM +- 5% 1/16W
PM01	RU66		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	RU67		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	RU69		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	RU71		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PM01	RU72		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	RU73		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	RU74		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	RU75		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	RU76		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	RU77		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	RU78		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	RU79		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	RU80		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	RU81		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	RU82		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	RU83		nsp	00MNN05473610	CHIP RESISTOR	47K OHM +- 5% 1/16W
PM01	RU84		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	RU85		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PM01	RU87		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	RU92	/N1B	nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	RU92	/N1S	nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	RU93	/F1B	nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	RU93	/F1N	nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	RU93	/L1G	nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	RU93	/S1G	nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	RU93	/U1B	nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PM01	SU01		00MSS04040140	00MSS04040140	SLIDE SWITCH	CHS-04TB1 DIP SWITCH(4TERMINAL
PM01	X101		00MJX27001350	00MJX27001350	CRYSTAL	27MHZ X-TAL
PM01	X301		00MJX12001350	00MJX12001350	CRYSTAL	12.288MHZ X'TAL (SMD-49)
PM01	XU01		00MFQ01205050	00MFQ01205050	SERAMIC VIB.	CSTCE12M0G52-R0
PT01	CT01		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PT01	CT02		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PT01	CT03		nsp	00MDK96102300	CERAMIC CAP.	1000 PF +- 10 % B 50V GR36
PT01	CT04		nsp	00MDD95470300	CERAMIC CAP.	47 PF +- 5 % CG 50V GR39
PT01	CT05		nsp	00MDD95470300	CERAMIC CAP.	47 PF +- 5 % CG 50V GR39
PT01	CT06		nsp	00MDK96102300	CERAMIC CAP.	1000 PF +- 10 % B 50V GR36
PT01	CT07		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PT01	CT08		00MEY10601070	00MEY10601070	TANTL.CAP CHIP	10UF/ 10V
PT01	CT09		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PT01	CT10		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PT01	CT11		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PT01	CT12		00MEY22600670	00MEY22600670	TANTL.CAP CHIP	MSVAOJ 22UF 6.3V TANTAL CAP
PT01	CT13		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PT01	CT14		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PT01	CT15		00MEY10601070	00MEY10601070	TANTL.CAP CHIP	10UF/ 10V
PT01	CT16		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PT01	CT17		nsp	00MDK96102300	CERAMIC CAP.	1000 PF +- 10 % B 50V GR36
PT01	CT18		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PT01	CT19		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PT01	CT20		00MEY22600670	00MEY22600670	TANTL.CAP CHIP	MSVAOJ 22UF 6.3V TANTAL CAP
PT01	CT21		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PT01	CT22		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PT01	CT24		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PT01	CT25		00MEY10601070	00MEY10601070	TANTL.CAP CHIP	10UF/ 10V
PT01	CT26		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PT01	CT27		00MEY10700620	00MEY10700620	ELECT. CHIP	100UF/6.3V
PT01	CT28		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PT01	CT29		00MEY10601070	00MEY10601070	TANTL.CAP CHIP	10UF/ 10V
PT01	CT30		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA

NOTE : "nsp" PARTS IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	PART NAME	DESCRIPTION
PT01	CT31		00MEY10601070	00MEY10601070	TANTL.CAP CHIP	10UF/ 10V
PT01	CT32		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PT01	CT51		nsp	00MDD95101300	CERAMIC CAP.	100 PF +- 5 % CG 50V GR39
PT01	CT52		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PT01	CT54		nsp	00MDK98105200	CERAMIC CAP.	1UF 10V F
PT01	CT57		nsp	00MOA47601640	ELECT. CAP.	47UF 16V ARS-TYPE ELNA
PT01	CT58		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PT01	CW01		00MEY10700620	00MEY10700620	ELECT. CHIP	100UF/6.3V
PT01	CW02		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PT01	CW03		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PT01	CW04		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PT01	CW05		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PT01	CW06		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PT01	CW07		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PT01	CW08		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PT01	CW09		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PT01	CW10		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PT01	CW11		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PT01	CW12		00MEY10700620	00MEY10700620	ELECT. CHIP	100UF/6.3V
PT01	CW13		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PT01	CW14		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PT01	CW15		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PT01	CW16		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PT01	CW17		00MEY10700620	00MEY10700620	ELECT. CHIP	100UF/6.3V
PT01	CW18		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PT01	CW19		00MEY33403510	00MEY33403510	TANTL.CAP CHIP	0.33UF/ 35V
PT01	CW20		nsp	00MDK96333200	CERAMIC CAP.	0.033UF +- 10%
PT01	CW21		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PT01	CW22		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PT01	CW23		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PT01	CW24		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PT01	CW25		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PT01	CW81		00MEY10601070	00MEY10601070	TANTL.CAP CHIP	10UF/ 10V
PT01	CW82		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PT01	CW83		00MEY10700620	00MEY10700620	ELECT. CHIP	100UF/6.3V
PT01	CW84		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PT01	CW85		00MEY10601070	00MEY10601070	TANTL.CAP CHIP	10UF/ 10V
PT01	CW86		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PT01	CW87		00MEY10700620	00MEY10700620	ELECT. CHIP	100UF/6.3V
PT01	CW88		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PT01	CW89		00MEY10601070	00MEY10601070	TANTL.CAP CHIP	10UF/ 10V
PT01	CW90		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PT01	CW91		00MEY10700620	00MEY10700620	ELECT. CHIP	100UF/6.3V
PT01	CW92		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PT01	JT01		00MYJ90014600	00MYJ90014600	JACK	DC1R019JDA HDMI TERMINAL
PT01	JT51		00MYJ90014610	00MYJ90014610	JACK	YKC22-0748N OPT+1P RCA 5V
PT01	JW01		00MYJ07060190	00MYJ07060190	JACK	40FLT-SM1-TB
PT01	LT01		00MLU12103010	00MLU12103010	CHIP INDUCTANCE	NL322522-100K
PT01	LT02		00MFN31010060	00MFN31010060	EMI FILTER	EMI FILTER BLM11P600S
PT01	LT03		00MLU12103010	00MLU12103010	CHIP INDUCTANCE	NL322522-100K
PT01	LT04		00MFN31010060	00MFN31010060	EMI FILTER	EMI FILTER BLM11P600S
PT01	LT05		00MFN31010060	00MFN31010060	EMI FILTER	EMI FILTER BLM11P600S
PT01	LT06		00MFN21000070	00MFN21000070	EMI FILTER	ACM2012H-900-2P
PT01	LT07		00MFN21000070	00MFN21000070	EMI FILTER	ACM2012H-900-2P
PT01	LT08		00MFN21000070	00MFN21000070	EMI FILTER	ACM2012H-900-2P
PT01	LT09		00MFN21000070	00MFN21000070	EMI FILTER	ACM2012H-900-2P
PT01	LT51		00MFN31010060	00MFN31010060	EMI FILTER	EMI FILTER BLM11P600S
PT01	LW01		00MFN31010060	00MFN31010060	EMI FILTER	EMI FILTER BLM11P600S
PT01	LW02		00MFN31010060	00MFN31010060	EMI FILTER	EMI FILTER BLM11P600S
PT01	LW03		00MLU12103010	00MLU12103010	CHIP INDUCTANCE	NL322522-100K
PT01	QT01		00MHC10247990	00MHC10247990	IC	SII9190 HDMI TRANSMITTER
PT01	QT02		00MHC008905K0	00MHC008905K0	IC	TC7SZ08FU
PT01	QT03		00MHY22010050	00MHY22010050	CHIP FET	HN1K05FU 2SK2824 X 2
PT01	QT05		00MHC91A33770	00MHC91A33770	IC	RN5RZ33BA-TR
PT01	QT06		00MHC10031770	00MHC10031770	IC	RN5RZ50B-TR
PT01	QT51		00MHX300012A0	00MHX300012A0	CHIP TR.	2SC4081 (Q,R) 2SC4116 (Y,GR)
PT01	QW01		00MHC10020660	00MHC10020660	IC	PD0280B SCALER

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P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	PART NAME	DESCRIPTION
PT01	QW02		00MHC10384050	00MHC10384050	IC	TC7S66FU
PT01	QW03		00MHC10384050	00MHC10384050	IC	TC7S66FU
PT01	QW81		00MHC91903210	00MHC91903210	IC	BA033SFP 3.3V WITH-SW LOW-SATU
PT01	QW82		00MHC91A33770	00MHC91A33770	IC	RN5RZ33BA-TR
PT01	QW83		00MHC10228210	00MHC10228210	IC	BA25BC0WFP 2.5V REG.
PT01	RT01		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PT01	RT02		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PT01	RT03		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PT01	RT07		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PT01	RT08		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PT01	RT09		nsp	00MNN05472610	CHIP RESISTOR	4.7K OHM +- 5% 1/16W
PT01	RT11		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PT01	RT12		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PT01	RT13		nsp	00MNN05561610	CHIP RESISTOR	560 OHM +- 5% 1/16W
PT01	RT14		00MBW05220020	00MBW05220020	RESISTOR COMPO.	CN1J4KTD22J
PT01	RT15		00MBW05220020	00MBW05220020	RESISTOR COMPO.	CN1J4KTD22J
PT01	RT16		00MBW05220020	00MBW05220020	RESISTOR COMPO.	CN1J4KTD22J
PT01	RT17		00MBW05220020	00MBW05220020	RESISTOR COMPO.	CN1J4KTD22J
PT01	RT18		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PT01	RT19		00MBW05220020	00MBW05220020	RESISTOR COMPO.	CN1J4KTD22J
PT01	RT20		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PT01	RT21		nsp	00MNN05473610	CHIP RESISTOR	47K OHM +- 5% 1/16W
PT01	RT22		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PT01	RT23		nsp	00MNN05182610	CHIP RESISTOR	1.8K OHM +- 5% 1/16W
PT01	RT24		nsp	00MNN05182610	CHIP RESISTOR	1.8K OHM +- 5% 1/16W
PT01	RT25		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PT01	RT26		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PT01	RT29		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PT01	RT30		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PT01	RT31		00MNP05510610	00MNP05510610	CHIP RESISTOR	51 OHM +- 5% 1/16W
PT01	RT32		00MNP05510610	00MNP05510610	CHIP RESISTOR	51 OHM +- 5% 1/16W
PT01	RT33		00MNP05510610	00MNP05510610	CHIP RESISTOR	51 OHM +- 5% 1/16W
PT01	RT34		00MNP05510610	00MNP05510610	CHIP RESISTOR	51 OHM +- 5% 1/16W
PT01	RT35		00MNP05510610	00MNP05510610	CHIP RESISTOR	51 OHM +- 5% 1/16W
PT01	RT36		00MNP05510610	00MNP05510610	CHIP RESISTOR	51 OHM +- 5% 1/16W
PT01	RT37		00MNP05220610	00MNP05220610	CHIP RESISTOR	22 OHM +- 5 % 1/16W
PT01	RT38		00MNP05220610	00MNP05220610	CHIP RESISTOR	22 OHM +- 5 % 1/16W
PT01	RT39		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PT01	RT51		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PT01	RT52		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PT01	RT53		nsp	00MNN05222610	CHIP RESISTOR	2.2K OHM +- 5% 1/16W
PT01	RT54		nsp	00MNN05182610	CHIP RESISTOR	1.8K OHM +- 5% 1/16W
PT01	RT55		nsp	00MNN05392610	CHIP RESISTOR	3.9K OHM +- 5% 1/16W
PT01	RT56		nsp	00MNN05221610	CHIP RESISTOR	220 OHM +- 5% 1/16W
PT01	RT57		nsp	00MNN05680610	CHIP RESISTOR	68 OHM +- 5% 1/16W
PT01	RT58		nsp	00MNN05104610	CHIP RESISTOR	100K OHM +- 5% 1/16W
PT01	RT59		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PT01	RT60		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PT01	RT61		nsp	00MNN05221610	CHIP RESISTOR	220 OHM +- 5% 1/16W
PT01	RW01		00MBW05220020	00MBW05220020	RESISTOR COMPO.	CN1J4KTD22J
PT01	RW02		00MBW05220020	00MBW05220020	RESISTOR COMPO.	CN1J4KTD22J
PT01	RW03		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PT01	RW04		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PT01	RW05		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PT01	RW06		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PT01	RW07		00MBW05220020	00MBW05220020	RESISTOR COMPO.	CN1J4KTD22J
PT01	RW08		00MBW05220020	00MBW05220020	RESISTOR COMPO.	CN1J4KTD22J
PT01	RW11		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PT01	RW12		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PT01	RW13		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PT01	RW14		nsp	00MNN05332610	CHIP RESISTOR	3.3K OHM +- 5% 1/16W
PT01	RW15		nsp	00MNN05821610	CHIP RESISTOR	820 OHM +- 5% 1/16W
PT01	RW16		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PT01	RW17		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PT01	RW18		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PT01	RW20		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PT01	RW21		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W

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P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	PART NAME	DESCRIPTION
PT01	RW22		nsp	00MNN05223610	CHIP RESISTOR	22K OHM +- 5% 1/16W
PT01	RW23		nsp	00MNN05223610	CHIP RESISTOR	22K OHM +- 5% 1/16W
PT01	TR1		00MHX100012A0	00MHX100012A0	CHIP TR.	2SA1586
PT01	TR2		00MBA20035210	00MBA20035210	CHIP TR.	DTC114EUA
PT01	R1		nsp	00MNN05104610	CHIP RESISTOR	100K OHM +- 5% 1/16W
PT01	R2		nsp	00MNN05392610	CHIP RESISTOR	3.9K OHM +- 5% 1/16W
PT01	R3		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PT01	R4		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PV01	CE01	/N1B	nsp	00MOA10701020	ELECT. CAP.	100 UF M 10V RA-2
PV01	CE01	/N1S	nsp	00MOA10701020	ELECT. CAP.	100 UF M 10V RA-2
PV01	CE02	/N1B	nsp	00MOA10701020	ELECT. CAP.	100 UF M 10V RA-2
PV01	CE02	/N1S	nsp	00MOA10701020	ELECT. CAP.	100 UF M 10V RA-2
PV01	CE03	/N1B	nsp	00MOA10701020	ELECT. CAP.	100 UF M 10V RA-2
PV01	CE03	/N1S	nsp	00MOA10701020	ELECT. CAP.	100 UF M 10V RA-2
PV01	CE04	/N1B	nsp	00MOA10701020	ELECT. CAP.	100 UF M 10V RA-2
PV01	CE04	/N1S	nsp	00MOA10701020	ELECT. CAP.	100 UF M 10V RA-2
PV01	CE05	/N1B	nsp	00MOA10701020	ELECT. CAP.	100 UF M 10V RA-2
PV01	CE05	/N1S	nsp	00MOA10701020	ELECT. CAP.	100 UF M 10V RA-2
PV01	CE06	/N1B	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CE06	/N1S	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CE07	/N1B	nsp	00MOA10606320	ELECT. CAP.	10 UF 63V RA-2
PV01	CE07	/N1S	nsp	00MOA10606320	ELECT. CAP.	10 UF 63V RA-2
PV01	CE08	/N1B	nsp	00MOA10606320	ELECT. CAP.	10 UF 63V RA-2
PV01	CE08	/N1S	nsp	00MOA10606320	ELECT. CAP.	10 UF 63V RA-2
PV01	CE09	/N1B	nsp	00MOA10606320	ELECT. CAP.	10 UF 63V RA-2
PV01	CE09	/N1S	nsp	00MOA10606320	ELECT. CAP.	10 UF 63V RA-2
PV01	CE10	/N1B	nsp	00MOA10606320	ELECT. CAP.	10 UF 63V RA-2
PV01	CE10	/N1S	nsp	00MOA10606320	ELECT. CAP.	10 UF 63V RA-2
PV01	CE11	/N1B	nsp	00MOA10701020	ELECT. CAP.	100 UF M 10V RA-2
PV01	CE11	/N1S	nsp	00MOA10701020	ELECT. CAP.	100 UF M 10V RA-2
PV01	CE12	/N1B	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CE12	/N1S	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CE13	/N1B	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CE13	/N1S	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CE14	/N1B	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CE14	/N1S	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CE15	/N1B	nsp	00MOA22605020	ELECT. CAP.	22 UF M 50V RA-2
PV01	CE15	/N1S	nsp	00MOA22605020	ELECT. CAP.	22 UF M 50V RA-2
PV01	CE16	/N1B	nsp	00MOA10701020	ELECT. CAP.	100 UF M 10V RA-2
PV01	CE16	/N1S	nsp	00MOA10701020	ELECT. CAP.	100 UF M 10V RA-2
PV01	CE17	/N1B	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CE17	/N1S	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CE18	/N1B	nsp	00MOA10800620	ELECT. CAP.	1000UF 6.3V M RA-2
PV01	CE18	/N1S	nsp	00MOA10800620	ELECT. CAP.	1000UF 6.3V M RA-2
PV01	CE19	/N1B	nsp	00MOA47701020	ELECT. CAP.	470 UF M 10V RA-2
PV01	CE19	/N1S	nsp	00MOA47701020	ELECT. CAP.	470 UF M 10V RA-2
PV01	CE20	/N1B	nsp	00MOA47701020	ELECT. CAP.	470 UF M 10V RA-2
PV01	CE20	/N1S	nsp	00MOA47701020	ELECT. CAP.	470 UF M 10V RA-2
PV01	CE21	/N1B	nsp	00MOA47701020	ELECT. CAP.	470 UF M 10V RA-2
PV01	CE21	/N1S	nsp	00MOA47701020	ELECT. CAP.	470 UF M 10V RA-2
PV01	CE22	/N1B	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CE22	/N1S	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CE24	/N1B	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CE24	/N1S	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CE25	/N1B	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CE25	/N1S	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CE26	/N1B	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CE26	/N1S	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CE27	/N1B	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CE27	/N1S	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CE32	/N1B	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CE32	/N1S	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CE33	/N1B	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CE33	/N1S	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CE90	/N1B	nsp	00MDD95331300	CERAMIC CAP.	330 PF +- 5 % CG 50V
PV01	CE90	/N1S	nsp	00MDD95331300	CERAMIC CAP.	330 PF +- 5 % CG 50V
PV01	CE91	/N1B	nsp	00MDD95331300	CERAMIC CAP.	330 PF +- 5 % CG 50V

NOTE : “nsp” PARTS IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	PART NAME	DESCRIPTION
PV01	CE91	/N1S	nsp	00MDD95331300	CERAMIC CAP.	330 PF +- 5 % CG 50V
PV01	CT72		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CT73		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CT81		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CT82		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CT83		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CT84		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CT85		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CT86		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CV01		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CV02		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CV03		nsp	00MOA10606320	ELECT. CAP.	10 UF 63V RA-2
PV01	CV04		nsp	00MOA10606320	ELECT. CAP.	10 UF 63V RA-2
PV01	CV05		nsp	00MOA22605020	ELECT. CAP.	22 UF M 50V RA-2
PV01	CV06		nsp	00MOA22605020	ELECT. CAP.	22 UF M 50V RA-2
PV01	CV07		nsp	00MOA10800620	ELECT. CAP.	1000UF 6.3V M RA-2
PV01	CV08		nsp	00MOA22605020	ELECT. CAP.	22 UF M 50V RA-2
PV01	CV09		nsp	00MOA10800620	ELECT. CAP.	1000UF 6.3V M RA-2
PV01	CV10		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CV11		nsp	00MOA10701020	ELECT. CAP.	100 UF M 10V RA-2
PV01	CV12		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CV13		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CV14		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CV91		nsp	00MOA47701020	ELECT. CAP.	470 UF M 10V RA-2
PV01	CV92		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CV93		nsp	00MOA47701020	ELECT. CAP.	470 UF M 10V RA-2
PV01	CV94		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CY01		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CY03		nsp	00MDD91100300	CERAMIC CAP.	10 PF +- 0.5 PF CH 50V GR39
PV01	CY04		nsp	00MDD95120300	CERAMIC CAP.	12 PF +- 5 % CG 50V
PV01	CY05		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CY06		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CY08		nsp	00MDD91100300	CERAMIC CAP.	10 PF +- 0.5 PF CH 50V GR39
PV01	CY09		nsp	00MDD95120300	CERAMIC CAP.	12 PF +- 5 % CG 50V
PV01	CY10		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CY11		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CY13		nsp	00MDD91100300	CERAMIC CAP.	10 PF +- 0.5 PF CH 50V GR39
PV01	CY14		nsp	00MDD95120300	CERAMIC CAP.	12 PF +- 5 % CG 50V
PV01	CY15		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CY16		nsp	00MOA10701020	ELECT. CAP.	100 UF M 10V RA-2
PV01	CY17		nsp	00MOA10606320	ELECT. CAP.	10 UF 63V RA-2
PV01	CY18		nsp	00MOA10606320	ELECT. CAP.	10 UF 63V RA-2
PV01	CY19		nsp	00MOA10606320	ELECT. CAP.	10 UF 63V RA-2
PV01	CY20		nsp	00MOA22605020	ELECT. CAP.	22 UF M 50V RA-2
PV01	CY21		nsp	00MOA10800620	ELECT. CAP.	1000UF 6.3V M RA-2
PV01	CY22		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CY23		nsp	00MOA47701020	ELECT. CAP.	470 UF M 10V RA-2
PV01	CY24		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CY25		nsp	00MOA47701020	ELECT. CAP.	470 UF M 10V RA-2
PV01	CY26		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CY27		nsp	00MOA10701020	ELECT. CAP.	100 UF M 10V RA-2
PV01	CY28		nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CY29	/F1B	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CY29	/F1N	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CY29	/L1G	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CY29	/S1G	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CY30	/F1B	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CY30	/F1N	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CY30	/L1G	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	CY30	/S1G	nsp	00MDK98104200	CERAMIC CAP.	GRM39F104Z16 0.1UF MURATA
PV01	DV01		00MHZ21005000	00MHZ21005000	CHIP DIODE	1SS301,DAN202U UMT TYPE
PV01	JE01	/N1B	00MYT02210070	00MYT02210070	TERMINAL	YKF41-5040
PV01	JE01	/N1S	00MYT02210070	00MYT02210070	TERMINAL	YKF41-5040
PV01	JT71		00MYT02020890	00MYT02020890	TERMINAL	2P RCA PIN JACK
PV01	JT81		00MYP11000220	00MYP11000220	PLUG	DZ101A1-B2
PV01	JV01		00MYT02021710	00MYT02021710	TERMINAL	YKC21-4074 2L2 FS AU
PV01	JV02		00MYJ11000670	00MYJ11000670	JACK	YKC51-5527

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P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	PART NAME	DESCRIPTION
PV01	JY01		00MYT02030700	00MYT02030700	TERMINAL	YKC21-4076 1L3 FS AU
PV01	JY02	/F1B	nsp	00MYJ11000680	JACK	YKF45-3007 (D CONNECTOR GOLD)
PV01	JY02	/F1N	nsp	00MYJ11000680	JACK	YKF45-3007 (D CONNECTOR GOLD)
PV01	JY02	/L1G	nsp	00MYJ11000680	JACK	YKF45-3007 (D CONNECTOR GOLD)
PV01	JY02	/S1G	nsp	00MYJ11000680	JACK	YKF45-3007 (D CONNECTOR GOLD)
PV01	LE01	/N1B	00MLU12472010	00MLU12472010	CHIP INDUCTANCE	NL322522-4R7M
PV01	LE01	/N1S	00MLU12472010	00MLU12472010	CHIP INDUCTANCE	NL322522-4R7M
PV01	LE02	/N1B	00MLU12472010	00MLU12472010	CHIP INDUCTANCE	NL322522-4R7M
PV01	LE02	/N1S	00MLU12472010	00MLU12472010	CHIP INDUCTANCE	NL322522-4R7M
PV01	LE03	/N1B	00MLU12472010	00MLU12472010	CHIP INDUCTANCE	NL322522-4R7M
PV01	LE03	/N1S	00MLU12472010	00MLU12472010	CHIP INDUCTANCE	NL322522-4R7M
PV01	LE05	/N1B	nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PV01	LE05	/N1S	nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PV01	LE08	/N1B	nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PV01	LE08	/N1S	nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PV01	LE90	/N1B	nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PV01	LE90	/N1S	nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PV01	LE91	/N1B	nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PV01	LE91	/N1S	nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PV01	LT81		00MFN31010060	00MFN31010060	EMI FILTER	EMI FILTER BLM11P600S
PV01	LT82		00MFN31000020	00MFN31000020	EMI FILTER	BLM11B252SD
PV01	LT83		00MFN31000020	00MFN31000020	EMI FILTER	BLM11B252SD
PV01	LT84		00MFN31000020	00MFN31000020	EMI FILTER	BLM11B252SD
PV01	LT85		00MFN31000020	00MFN31000020	EMI FILTER	BLM11B252SD
PV01	LV01		00MLU12472010	00MLU12472010	CHIP INDUCTANCE	NL322522-4R7M
PV01	LY01		00MLU12102010	00MLU12102010	CHIP INDUCTANCE	NL322522-1ROM
PV01	LY02		00MLU12392010	00MLU12392010	CHIP INDUCTANCE	NL322522-3R9M
PV01	LY03		00MLU12102010	00MLU12102010	CHIP INDUCTANCE	NL322522-1ROM
PV01	LY04		00MLU12392010	00MLU12392010	CHIP INDUCTANCE	NL322522-3R9M
PV01	LY05		00MLU12102010	00MLU12102010	CHIP INDUCTANCE	NL322522-1ROM
PV01	LY06		00MLU12392010	00MLU12392010	CHIP INDUCTANCE	NL322522-3R9M
PV01	LY07		00MLU12472010	00MLU12472010	CHIP INDUCTANCE	NL322522-4R7M
PV01	LY08		00MLU12472010	00MLU12472010	CHIP INDUCTANCE	NL322522-4R7M
PV01	QE01	/N1B	00MHC12244090	00MHC12244090	IC	NJM2584M 50MHZ VIDEO SW
PV01	QE01	/N1S	00MHC12244090	00MHC12244090	IC	NJM2584M 50MHZ VIDEO SW
PV01	QE02	/N1B	00MHC10102550	00MHC10102550	IC	MM1623XFBE VIDEO AMP
PV01	QE02	/N1S	00MHC10102550	00MHC10102550	IC	MM1623XFBE VIDEO AMP
PV01	QE03	/N1B	00MBA20035210	00MBA20035210	SEMICON.COMP	DTC114EU
PV01	QE03	/N1S	00MBA20035210	00MBA20035210	SEMICON.COMP	DTC114EU
PV01	QE04	/N1B	00MHX100012A0	00MHX100012A0	CHIP TR.	2SA1586 (Y,GR) 2SA1576A (Q,R)
PV01	QE04	/N1S	00MHX100012A0	00MHX100012A0	CHIP TR.	2SA1586 (Y,GR) 2SA1576A (Q,R)
PV01	QE05	/N1B	00MBA20035210	00MBA20035210	SEMICON.COMP	DTC114EU
PV01	QE05	/N1S	00MBA20035210	00MBA20035210	SEMICON.COMP	DTC114EU
PV01	QE06	/N1B	00MHX300012A0	00MHX300012A0	CHIP TR.	2SC4081 (Q,R) 2SC4116 (Y,GR)
PV01	QE06	/N1S	00MHX300012A0	00MHX300012A0	CHIP TR.	2SC4081 (Q,R) 2SC4116 (Y,GR)
PV01	QT81		00MHC10248990	00MHC10248990	IC	ISL83384ECA-T
PV01	QV01		00MHC10103550	00MHC10103550	IC	MM1566AJBE VIDEO AMP WITH LPF
PV01	QV02		00MBA20035210	00MBA20035210	SEMICON.COMP	DTC114EU
PV01	QV03		00MHX100012A0	00MHX100012A0	CHIP TR.	2SA1586 (Y,GR) 2SA1576A (Q,R)
PV01	QV04		00MBA20035210	00MBA20035210	SEMICON.COMP	DTC114EU
PV01	QV91		00MHC91905210	00MHC91905210	IC	BA05SFP-E2
PV01	QY01		00MHX100012A0	00MHX100012A0	CHIP TR.	2SA1586 (Y,GR) 2SA1576A (Q,R)
PV01	QY02		00MHX300012A0	00MHX300012A0	CHIP TR.	2SC4081 (Q,R) 2SC4116 (Y,GR)
PV01	QY03		00MHX100012A0	00MHX100012A0	CHIP TR.	2SA1586 (Y,GR) 2SA1576A (Q,R)
PV01	QY04		00MHX300012A0	00MHX300012A0	CHIP TR.	2SC4081 (Q,R) 2SC4116 (Y,GR)
PV01	QY05		00MHX100012A0	00MHX100012A0	CHIP TR.	2SA1586 (Y,GR) 2SA1576A (Q,R)
PV01	QY06		00MHX300012A0	00MHX300012A0	CHIP TR.	2SC4081 (Q,R) 2SC4116 (Y,GR)
PV01	QY07		00MHC10231090	00MHC10231090	IC	NJM2580M
PV01	QY08		00MBA20035210	00MBA20035210	SEMICON.COMP	DTC114EU
PV01	QY09		00MBA20035210	00MBA20035210	SEMICON.COMP	DTC114EU
PV01	RE01	/N1B	nsp	00MNN05390610	CHIP RESISTOR	39 OHM +- 5% 1/16W
PV01	RE01	/N1S	nsp	00MNN05390610	CHIP RESISTOR	39 OHM +- 5% 1/16W
PV01	RE02	/N1B	nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PV01	RE02	/N1S	nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PV01	RE03	/N1B	nsp	00MNN05390610	CHIP RESISTOR	39 OHM +- 5% 1/16W
PV01	RE03	/N1S	nsp	00MNN05390610	CHIP RESISTOR	39 OHM +- 5% 1/16W
PV01	RE04	/N1B	nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W

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P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	PART NAME	DESCRIPTION
PV01	RE04	/N1S	nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PV01	RE05	/N1B	nsp	00MNN05390610	CHIP RESISTOR	39 OHM +- 5% 1/16W
PV01	RE05	/N1S	nsp	00MNN05390610	CHIP RESISTOR	39 OHM +- 5% 1/16W
PV01	RE06	/N1B	nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PV01	RE06	/N1S	nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PV01	RE07	/N1B	nsp	00MNN05390610	CHIP RESISTOR	39 OHM +- 5% 1/16W
PV01	RE07	/N1S	nsp	00MNN05390610	CHIP RESISTOR	39 OHM +- 5% 1/16W
PV01	RE08	/N1B	nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PV01	RE08	/N1S	nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PV01	RE10	/N1B	nsp	00MNN05223610	CHIP RESISTOR	22K OHM +- 5% 1/16W
PV01	RE10	/N1S	nsp	00MNN05223610	CHIP RESISTOR	22K OHM +- 5% 1/16W
PV01	RE11	/N1B	nsp	00MNN05102610	CHIP RESISTOR	1K OHM +- 5% 1/16W
PV01	RE11	/N1S	nsp	00MNN05102610	CHIP RESISTOR	1K OHM +- 5% 1/16W
PV01	RE12	/N1B	nsp	00MNN05563610	CHIP RESISTOR	56K OHM +- 5% 1/16W
PV01	RE12	/N1S	nsp	00MNN05563610	CHIP RESISTOR	56K OHM +- 5% 1/16W
PV01	RE13	/N1B	nsp	00MNN05221610	CHIP RESISTOR	220 OHM +- 5% 1/16W
PV01	RE13	/N1S	nsp	00MNN05221610	CHIP RESISTOR	220 OHM +- 5% 1/16W
PV01	RE14	/N1B	nsp	00MNN05221610	CHIP RESISTOR	220 OHM +- 5% 1/16W
PV01	RE14	/N1S	nsp	00MNN05221610	CHIP RESISTOR	220 OHM +- 5% 1/16W
PV01	RE15	/N1B	nsp	00MNN05221610	CHIP RESISTOR	220 OHM +- 5% 1/16W
PV01	RE15	/N1S	nsp	00MNN05221610	CHIP RESISTOR	220 OHM +- 5% 1/16W
PV01	RE16	/N1B	nsp	00MNN05472610	CHIP RESISTOR	4.7K OHM +- 5% 1/16W
PV01	RE16	/N1S	nsp	00MNN05472610	CHIP RESISTOR	4.7K OHM +- 5% 1/16W
PV01	RE17	/N1B	nsp	00MNN05472610	CHIP RESISTOR	4.7K OHM +- 5% 1/16W
PV01	RE17	/N1S	nsp	00MNN05472610	CHIP RESISTOR	4.7K OHM +- 5% 1/16W
PV01	RE18	/N1B	nsp	00MNN05563610	CHIP RESISTOR	56K OHM +- 5% 1/16W
PV01	RE18	/N1S	nsp	00MNN05563610	CHIP RESISTOR	56K OHM +- 5% 1/16W
PV01	RE19	/N1B	nsp	00MNN05152610	CHIP RESISTOR	1.5K OHM +- 5% 1/16W
PV01	RE19	/N1S	nsp	00MNN05152610	CHIP RESISTOR	1.5K OHM +- 5% 1/16W
PV01	RE20	/N1B	nsp	00MNN05152610	CHIP RESISTOR	1.5K OHM +- 5% 1/16W
PV01	RE20	/N1S	nsp	00MNN05152610	CHIP RESISTOR	1.5K OHM +- 5% 1/16W
PV01	RE21	/N1B	nsp	00MNN05152610	CHIP RESISTOR	1.5K OHM +- 5% 1/16W
PV01	RE21	/N1S	nsp	00MNN05152610	CHIP RESISTOR	1.5K OHM +- 5% 1/16W
PV01	RE22	/N1B	nsp	00MNN05105610	CHIP RESISTOR	1M OHM +- 5% 1/16W
PV01	RE22	/N1S	nsp	00MNN05105610	CHIP RESISTOR	1M OHM +- 5% 1/16W
PV01	RE23	/N1B	nsp	00MNN05105610	CHIP RESISTOR	1M OHM +- 5% 1/16W
PV01	RE23	/N1S	nsp	00MNN05105610	CHIP RESISTOR	1M OHM +- 5% 1/16W
PV01	RE90	/N1B	nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PV01	RE90	/N1S	nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PV01	RE91	/N1B	nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PV01	RE91	/N1S	nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PV01	RE92	/N1B	nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PV01	RE92	/N1S	nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PV01	RE93	/N1B	nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PV01	RE93	/N1S	nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PV01	RT71		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PV01	RT72		nsp	00MNN05470610	CHIP RESISTOR	47 OHM +- 5% 1/16W
PV01	RT74		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PV01	RT75		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PV01	RT82		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PV01	RT83		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PV01	RT84		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PV01	RT85		nsp	00MNN05220610	CHIP RESISTOR	22 OHM +- 5% 1/16W
PV01	RT86		nsp	00MNN05223610	CHIP RESISTOR	22K OHM +- 5% 1/16W
PV01	RT87		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PV01	RT88		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PV01	RT89		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PV01	RT90		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PV01	RV01		nsp	00MNN05390610	CHIP RESISTOR	39 OHM +- 5% 1/16W
PV01	RV02		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PV01	RV03		nsp	00MNN05390610	CHIP RESISTOR	39 OHM +- 5% 1/16W
PV01	RV04		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PV01	RV05		nsp	00MNN05390610	CHIP RESISTOR	39 OHM +- 5% 1/16W
PV01	RV06		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PV01	RV07		nsp	00MNN05390610	CHIP RESISTOR	39 OHM +- 5% 1/16W
PV01	RV08		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PV01	RV09		nsp	00MNN05223610	CHIP RESISTOR	22K OHM +- 5% 1/16W

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P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	PART NAME	DESCRIPTION
PV01	RV10		nsp	00MNN05102610	CHIP RESISTOR	1K OHM +- 5% 1/16W
PV01	RV11		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PV01	RV12		nsp	00MNN05332610	CHIP RESISTOR	3.3K OHM +- 5% 1/16W
PV01	RV13		nsp	00MNN05332610	CHIP RESISTOR	3.3K OHM +- 5% 1/16W
PV01	RV14		nsp	00MNN05682610	CHIP RESISTOR	6.8K OHM +- 5% 1/16W
PV01	RV80		nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PV01	RV85	/F1B	nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PV01	RV85	/F1N	nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PV01	RV85	/L1G	nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PV01	RV85	/S1G	nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PV01	RV86	/N1B	nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PV01	RV86	/N1S	nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PV01	RV87	/U1B	nsp	00MNN05000610	CHIP RESISTOR	0 OHM +- 5% 1/16W
PV01	RY01		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PV01	RY02		nsp	00MNN05102610	CHIP RESISTOR	1K OHM +- 5% 1/16W
PV01	RY03		nsp	00MNN05471610	CHIP RESISTOR	470 OHM +- 5% 1/16W
PV01	RY05		nsp	00MNN05223610	CHIP RESISTOR	22K OHM +- 5% 1/16W
PV01	RY06		nsp	00MNN05681610	CHIP RESISTOR	680 OHM +- 5% 1/16W
PV01	RY07		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PV01	RY08		nsp	00MNN05102610	CHIP RESISTOR	1K OHM +- 5% 1/16W
PV01	RY09		nsp	00MNN05471610	CHIP RESISTOR	470 OHM +- 5% 1/16W
PV01	RY11		nsp	00MNN05223610	CHIP RESISTOR	22K OHM +- 5% 1/16W
PV01	RY12		nsp	00MNN05681610	CHIP RESISTOR	680 OHM +- 5% 1/16W
PV01	RY13		nsp	00MNN05101610	CHIP RESISTOR	100 OHM +- 5% 1/16W
PV01	RY14		nsp	00MNN05102610	CHIP RESISTOR	1K OHM +- 5% 1/16W
PV01	RY15		nsp	00MNN05471610	CHIP RESISTOR	470 OHM +- 5% 1/16W
PV01	RY17		nsp	00MNN05223610	CHIP RESISTOR	22K OHM +- 5% 1/16W
PV01	RY18		nsp	00MNN05681610	CHIP RESISTOR	680 OHM +- 5% 1/16W
PV01	RY19		nsp	00MNN05390610	CHIP RESISTOR	39 OHM +- 5% 1/16W
PV01	RY20		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PV01	RY21		nsp	00MNN05390610	CHIP RESISTOR	39 OHM +- 5% 1/16W
PV01	RY22		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PV01	RY23		nsp	00MNN05390610	CHIP RESISTOR	39 OHM +- 5% 1/16W
PV01	RY24		nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PV01	RY25	/F1B	nsp	00MNN05390610	CHIP RESISTOR	39 OHM +- 5% 1/16W
PV01	RY25	/F1N	nsp	00MNN05390610	CHIP RESISTOR	39 OHM +- 5% 1/16W
PV01	RY25	/L1G	nsp	00MNN05390610	CHIP RESISTOR	39 OHM +- 5% 1/16W
PV01	RY25	/S1G	nsp	00MNN05390610	CHIP RESISTOR	39 OHM +- 5% 1/16W
PV01	RY26	/F1B	nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PV01	RY26	/F1N	nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PV01	RY26	/L1G	nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PV01	RY26	/S1G	nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PV01	RY27	/F1B	nsp	00MNN05390610	CHIP RESISTOR	39 OHM +- 5% 1/16W
PV01	RY27	/F1N	nsp	00MNN05390610	CHIP RESISTOR	39 OHM +- 5% 1/16W
PV01	RY27	/L1G	nsp	00MNN05390610	CHIP RESISTOR	39 OHM +- 5% 1/16W
PV01	RY27	/S1G	nsp	00MNN05390610	CHIP RESISTOR	39 OHM +- 5% 1/16W
PV01	RY28	/F1B	nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PV01	RY28	/F1N	nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PV01	RY28	/L1G	nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PV01	RY28	/S1G	nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PV01	RY29	/F1B	nsp	00MNN05390610	CHIP RESISTOR	39 OHM +- 5% 1/16W
PV01	RY29	/F1N	nsp	00MNN05390610	CHIP RESISTOR	39 OHM +- 5% 1/16W
PV01	RY29	/L1G	nsp	00MNN05390610	CHIP RESISTOR	39 OHM +- 5% 1/16W
PV01	RY29	/S1G	nsp	00MNN05390610	CHIP RESISTOR	39 OHM +- 5% 1/16W
PV01	RY30	/F1B	nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PV01	RY30	/F1N	nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PV01	RY30	/L1G	nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PV01	RY30	/S1G	nsp	00MNN05330610	CHIP RESISTOR	33 OHM +- 5% 1/16W
PV01	RY31		nsp	00MNN05103610	CHIP RESISTOR	10K OHM +- 5% 1/16W
PV01	RY32		nsp	00MNN05332610	CHIP RESISTOR	3.3K OHM +- 5% 1/16W
PV01	RY33	/F1B	nsp	00MNN05682610	CHIP RESISTOR	6.8K OHM +- 5% 1/16W
PV01	RY33	/F1N	nsp	00MNN05682610	CHIP RESISTOR	6.8K OHM +- 5% 1/16W
PV01	RY33	/L1G	nsp	00MNN05682610	CHIP RESISTOR	6.8K OHM +- 5% 1/16W
PV01	RY33	/S1G	nsp	00MNN05682610	CHIP RESISTOR	6.8K OHM +- 5% 1/16W
PV01	RY34	/F1B	nsp	00MNN05682610	CHIP RESISTOR	6.8K OHM +- 5% 1/16W
PV01	RY34	/F1N	nsp	00MNN05682610	CHIP RESISTOR	6.8K OHM +- 5% 1/16W
PV01	RY34	/L1G	nsp	00MNN05682610	CHIP RESISTOR	6.8K OHM +- 5% 1/16W

P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	PART NAME	DESCRIPTION
PV01	RY34	/S1G	nsp	00MNN05682610	CHIP RESISTOR	6.8K OHM +- 5% 1/16W
PV01	RY35		nsp	00MNN05105610	CHIP RESISTOR	1M OHM +- 5% 1/16W
PV01	ST71		00MSS01021010	00MSS01021010	SLIDE SWITCH	SSSF12-S06N0 HORIZONTAL N-SHOT
PV01	ST81		00MSP02022320	00MSP02022320	PUSH SWITCH	PUSH SW (SPUJ191000) W/KNOB

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